RESOURCE CONSERVATION
AND RECOVERY ACT (RCRA)
COMPLIANCE EVALUATION INSPECTION
for

Litton-Clifton Precision Instruments and Life Support Division 2734 Hickory Grove Road Davenport, Iowa 52804 EPA I.D. Number IAD005268420

Inspected July 13, 1983

Submitted by:

PEDCo Environmental, Inc. 7331 Madison Avenue Kansas City, Missouri 64114

Submitted for:

A. T. Kearney 699 Prince Street Alexandria, Virginia 22313

Submitted to: Jane Ratcliffe, Regional Project Officer
Joe Galbraith, Task Manager
U.S. Environmental Protection Agency
Region VII
324 East Eleventh Street
Kansas City, Missouri 64106

In response to:

EPA Contract 68-01-6515 Work Assignment No. R07-004 PN 3597-17-4I

July 1983



INTRODUCTION

On Wednesday, July 13, 1983, Thomas D. Robertson of PEDCo Environmental, Inc. (an EPA contractor) conducted a RCRA compliance evaluation inspection at the Litton-Clifton Precision Instrument and Life Support Division facility located in Davenport, Iowa. Mr. Paul Bohnsack, facility manager of safety and security, and Mr. David Whitting with the Iowa Department of Water, Air and Waste Management participated in the inspection. The purpose of this inspection was to determine whether the facility was in compliance with RCRA interim status requirements and to verify and clarify information contained in its RCRA permit application.

At 10:30 a.m. PEDCo met Mr. Whitting in the facility parking lot and briefly reviewed a past compliance inspection report. The two inspectors presented credentials to the receptionist and requested to meet with Mr. Paul Bohnsack, the facility's designated contact person. After the scope and purpose of the inspection were explained, Mr. Bohnsack took the inspectors to his office where the administrative records were reviewed. A plant tour was then conducted and an exit interview held. Photographs that were taken are attached to this report.

RCRA INSPECTION

Unless noted otherwise, the following compliance-related observations are the only areas of concern:

I. GENERATOR STANDARDS, 40 CFR 262

A. SUBPART A - GENERAL

- 1. The facility had 12 drums in storage labeled as D002 corrosive waste with varying dates (10-82 to 6-83). It appeared that the labels originally indicated F007; however, at the time of inspection they clearly indicated D002. D002 corrosive waste does not appear on the applicant's Part A application nor does it appear on the facility's notification forms. 40 CFR 262.11
- 2. The facility had three plastic carboys labeled as waste acids (see Photo Number 3). This waste was comingled with their nonhazardous solid waste (metal shavings). Mr. Bohnsack could not explain why the carboys were located among the nonhazardous waste nor could he say if the waste was hazardous or not. 40 CFR 262.11

B. SUBPART B - THE MANIFESTS

- 1. The facility is not designating alternate TSD facilities, nor is it instructing transporters to return the waste if it is undeliverable as specified on the manifest document. 40 CFR 262.20
- 2. The facility is using preprinted manifest forms required by the states of Illinois and Minnesota. Each of these states has modified the certification required by 40 CFR 262.21(b).
- 3. The facility differentiates between containerized wastes that are in storage and containerized wastes that are in accumulation (see Photo Number 7). The containers in accumulation are not uniquely labeled, although a stenciled sign above the container indicates its content. The date upon which accumulation began is not marked, and the drums are not kept closed except when waste is added or removed. 40 CFR 262.34

II. INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZ-ARDOUS WASTE TREATMENT STORAGE AND DISPOSAL FACILITIES, 40 CFR 265

A. SUBPART A - GENERAL

- 1. Nine drums (see Photo Number 6) of waste at the facility were stored in an area other than that designated on the Part A application. The drums were all in excellent condition and were stored inside the shipping and receiving area. The dock storage area was not overly crowded. The nine drums included:
 - ° 1 drum of cyanide waste F007 dated 2/4/83
 - 5 drums of cyanide waste F007 dated
 6/28/83
 - ° 2 drums of solvent waste F001 dated 7/6/83
 - ° 1 drum of solvent waste F005 dated 6/28/83
- 2. The facility had generated one drum of hazardous waste D005 and placed it in the storage area. This type of hazardous (barium EP toxic) waste does not appear on the applicant's Part A application nor does it appear on the notification form. The waste was inside a 110-gallon overpack drum. The label indicates that accumulation began May 17, 1983. It should be noted that less than 90 days had elapsed since May 17, 1983, and it was not necessary to secure an interim waste storage area.

B. SUBPART B - GENERAL FACILITY STANDARDS

- 1. The facility does not have detailed chemical and physical analyses of the waste acids and corrosive materials referred to in Sections I.A.1 and 2. 40 CFR 265.13
- 2. The facility has not implemented the inspection schedule presented in the Part B application nor has it documented that any inspections of the containers and container storage area have been completed. Fire fighting equipment has reportedly been inspected annually by the facility's insurance underwriters; however, documentation was not available at the time of the inspection. Security fences are reportedly inspected by the

facility's contact ground service (Pinkerton); however, documentation was not available at the time of the inspection. 40 CFR 265.15

Personnel training records were not available for the emergency coordinator or the designated alternates. 40 CFR 265.16

C. SUBPART D - CONTINGENCY PLAN AND EMERGENCY PROCEDURES

- 1. Neither the emergency coordinator nor designated alternates have authority to commit the resources needed to carry out the contingency plan. (See the emergency plan Section G of Part B application for limitations of authority.) Additionally, it was apparent that the alternate emergency coordinators were not thoroughly familiar with all aspects of the facility's operations, especially the location of records. 40 CFR 265.55
- 2. The facility has not formally established a procedure for designating an emergency coordinator to be on call after hours, during holidays, etc. 40 CFR 265.55
- D. SUBPART E MANIFEST SYSTEM, RECORDKEEPING, AND REPORT-ING
 - 1. The operating record does not address the location and quantity of the wastes referred to in Sections I.A.1, I.A.2, II.A.1, or II.A.2. Additionally, the record does not include inspection logs. 40 CFR 265.73

III. PERMIT-RELATED ISSUES

- A. The existing storage area is stained and etched and shows signs of superficial contamination. (See Photos 4 and 5.) The area is not used exclusively for storing hazardous waste. All of the drums visible in Photo Number 4 contain solid wastes, primarily cutting oils being held for recycle. The inspector was unable to determine the cause or content of the stains that are evident in the pictures.
- B. The company's training plan should be expanded to include the emergency coordinators. There is only one person in each of the job descriptions provided in the facility's January 27, 1983, letter to Harrington.
- C. The Part B application should address corrosive waste management activities.

D. The application should specify the minimum secondary aisle space needed to allow proper inspection of each storage cell in the proposed storage building.

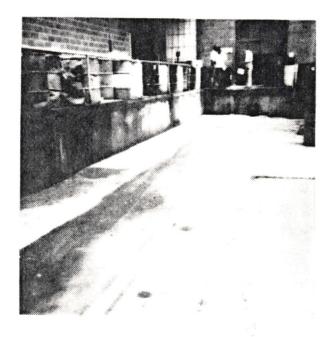
LIST OF PHOTOGRAPHS LITTON-CLIFTON PRECISION INSTRUMENTS

Photo Number	Description
1	Shows label of D002 - corrosive waste
2	Shows label of D002 - corrosive waste
3	Shows plastic carbon of waste acid among drums of solid waste being held for recycling
4	Shows storage dock and stain on walls and driveway
5	Shows storage dock and stains, etchings of base
6	Shows drums inside of shipping and receiving area
7	Shows drums in the accumulation area

HAZARDOUS WASTE

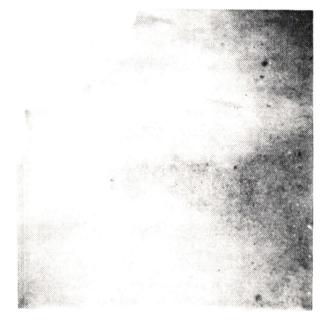


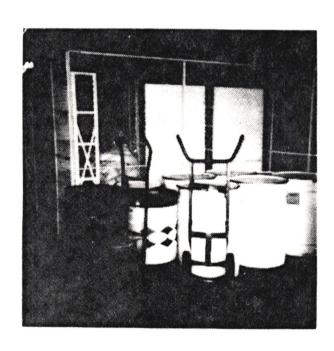
ILLEGIBLE DOCUMENT



#4

ILLEGIBLE DOCUMENT





DOCUMENT



IOWA DEPART INT OF WATER, AIR AND WA

Report Of Investigation

Page 1 01 2

Report of 1.			
INVESTIGATION DATE Current 7/13/83 Last 3/11/82 TO: (Facility Name, Location & Address)	FROM: (Use Stamp)	Region No. 6 P. O. Box 27 Washington, Iowa 5	52353
Clifton Precision Paul Bohnsack, Mgr. Safety, Security &	Persons	Contacted (Name 8	Position)
2734 Hickory Grove Rd., P.O. Box 4508 Davenport, IA 52808	Paul Bohn	sack, Manager - Sa and Univ. Re	fety. Sec lations
RE:(Specify Investigation Purpose Or Cite Rule)			7
RCRA COMPLIANCE INSPECTION	-		200

OBSERVATIONS/RECOMMENDATIONS

IAD005268420

On July 13, 1983 a RCRA compliance inspection was conducted at Clifton Precision by Tom Robertson of Pedco, under contract with the EPA. The compliance inspection was requested by Mr. Dennis Degner of the Region VII EPA office. This inspection for compliance is prior to continued consideration of an application for permit by this facility.

Mr. Robertson presented his identification to Mr. Bohnsack and explained the facility's confidentiality rights; then proceeded with areas of administrative compliance. Several minor deficiencies were noted during the inspection and after the inspection at the pre-exit interview. Deficiencies noted were in the personnel training program, manifest records, in container inspections, in the waste analysis plan and in the operating record.

The storage area was inspected in the afternoon and was observed to have some evidence of leaking acid containers because the concrete was etched and corroded in a few areas where chemicals had been in contact with it. There were nine - 55 gal. barrels away from the hazardous waste storage area that were in storage; one barrel had been there since February of 1983; two barrels had been there since July 6, 1983 and the remaining barrels had been there since June 28 & 29, 1983. On the dock, which is the hazardous storage area, there were several containers (approximately 35) of material labeled as "waste oil". There were approximately 6 or 7 containers of metal shavings. Among these containers there were also two carboys of waste acid and one small jug of paint stripper. Separated from these waste oils by a few feet was a line of fourteen - 55 gal. barrels which are hazardous waste and which Mr. Bohnsack considers the hazardous waste in storage. These included one drum of EPA waste no. F010, one drum of EPA waste no. D005 and twelve drums of EPA waste no. D002. The containers marked D002 looked as though the D002 had been changed from F007. Mr. Bohnsack said that Waste Research & Reclamation recommended changing the F007 to D002.

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	Signature	Date
SUSPENSE DATE	Signatury A N.	
	Inspector	7/19/83
	David N. Whiting 1 and V. Wung	111100
//	Earl C. Voelker, Sr. by Alex Frankruker	8-5-83
	Earl C. Voelker, St. Uy Alicu Framalication	
Enclosures (Specify		
Enclosures (Special	4	_ 1
Dietribution: Regio	onal Office: Central Office: Inspected Facility: Tom Robertson,	Pedco:

RECEIVED

Clifton Precision IAD005268420

Generally speaking, the facility is managing its hazardous waste relatively well. There are areas of non-compliance that will undoubtedly have to be addressed prior to issuance of a permit. The hazardous waste storage area will undoubtedly have to be cleaned in some manner either with strong detergent cleaning or steam cleaning prior to closure of the hazardous waste storage area.

This writer also recommended to Mr. Bohnsack that one or more warning signs be attached to the cyclone fence facing the railroad tracks near the hazardous waste storage area.

DNW:w

xc: Tom Robertson, Pedco

IOWA DEPARTI NT OF WATER, AIR AND WAS MANAGEMENT

Report Of Investigation

Page 1 01 2

Region No. 6 Stamp) P. O. Box 27 Washington, lowa 52353
Persons Contacted (Name & Position) Paul Bohnsack, Manager - Safety, Security and Univ. Relations

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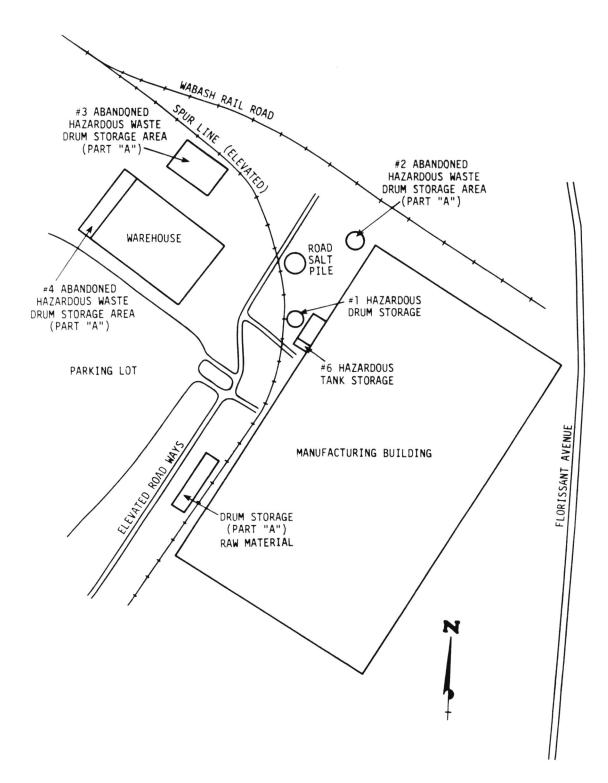
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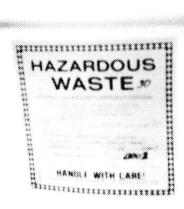


Emmerson Electric Company St. Louis, Missouri EPA ID No. MOD 00629633

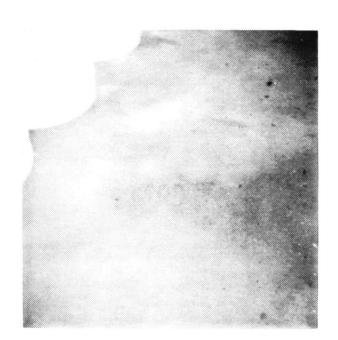
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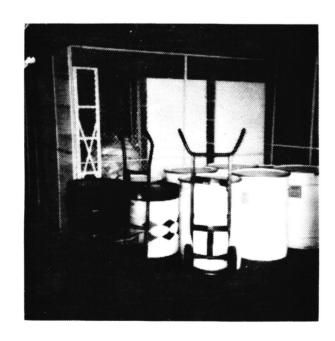
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FOOL

PEDCo ENVIRONMENTAL, INC.

11499 CHESTER ROAD CINCINNATI, OHIO 45246 (513) 782-4700 TELECOPIER (513) 782-4807

July 29, 1983

Mr. Jim Levin Project Officer A. T. Kearney 699 Prince Street P.O. Box 1405 Alexandria, VA 22313

Dear Jim:

In accordance with Dr. Degner's (EPA Region VII) letter dated June 1, 1983, we have prepared an inspection report for the Litton-Clifton Precision Instruments facility located in Davenport, Iowa. Attached to the report are copies of the two checklists which were provided by EPA and completed in the field. The RCRA inspection confidentiality notice, photographs and the facilities personnel training plan are also included.

If you have any questions, call me.

Sincerely,

PEDCo ENVIRONMENTAL, INC.

Thomas D. Robertson Project Manager

Enclosure

cc: J. Ratcliffe

D. Sandifer

J. Galbraith

BRANCH OFFICES

DALLAS, TEXAS
KANSAS CITY, MISSOURI

COLUMBUS, OHIO
DURHAM, NORTH CAROLINA



U.S. ENVIRONMENTAL PROTECTION AGENCY

RCRA INSPECTION CONFIDENTIALITY NOTICE

Name and Address of Inspector(s) PEDCO ENVIRONMENTAL SEC 2420 Pershing 843 SULT 300 KANSAS CHY MAGY108 TON ROBERTSON	Name and Address of Facilic CLIFTON PRECISION INSTRUMENTS & LIFE S DIVISION 2734 HICK-ORM GROVE DAVENPORT - 10WA _ Owner, Operator, or Agent PALL E, BOXINSA Title MGR _SAFETY & SE Address SAME,	UPPORT ROAD 52804 in Charge
Name of Individual to Whom Notice Given	Title	Date
PAUL BOHNSACK	MER - SATELY STEPPEN	1.1.13

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 U.S.C. 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Resource Conservation and Recovery Act, Section 3007, EPA is required to make inspection data available in response to FOIA requests, unless the Administrator of the Agency determines that the data contains information entitled to confidential treatment.

Any or all of the information collected by EPA during the inspection may be claimed confidential, if it relates to trade secrets or commercial or financial matters that you consider to be confidential. If you make claims of confidentiality, EPA will disclose the information only to the extent, and by the means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential information. Among other things, the regulations require that the EPA notify you in advance of publicly disclosing any insormation you have claimed and certified confidential.

TO oddin information confidential, you must certify that each claimed iter meets all of the following criteria:

- 1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
- 2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies by use of legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding).
- 3. The information is not publicly available elsewhere.

Emple.

4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential and meets the four criteria listed above.

RCRA	INSPECTION	CONFIDENTIALITY	NOTIC	

Facility

If you are not authorized by your company to make confidentiality claims, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials, to the Owner, Operator, or Agent in Charge of your firm, within two days of this date. That person must return a statement, specifying any information which should receive confidential treatment.

The statement from the Owner, Operator, or Agent in Charge should be addressed to:

Mrs. Louise D. Jacobs
Director, Enforcement Division
United States Environmental Protection Agency
324 E. 11th Street
Kansas City, Missouri 64106

and mailed by registered, return-receipt requested mail within seven (7) calendar days of receipt of this Notice.

Failure by your firm to submit a written request that information be treat ed as confidential, either at the completion of the inspection or by the Owner, Operator, or Agent in charge, within the seven-day period, will be treated by the EPA as a waiver by your company of any claims for confidentiality regarding the inspection data.

To be completed by the facility official recediving this Notice:
I have received and read this Notice.
Name PAUL E. BOHNSACK
Title Mar-SAFETY & SECURITY
Signature Jauly amsked
Date 13 JULY 1983
If there is no one on the premises of the facility who is authorized to m business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the Owner, Operator, or Agent charge of the company. If there is another company official who should a receive this information, please designate below:
Name
Title
Address

(5	ubpart I Section 265,170 - "General Operating Requirements"	K.O. USE
`*	deneral Operating Requirements"	Inspection file No:
Alame of Fa	cility: Litton- Clifton ILSD	
	2734 Hickory Shove	Reviewer:
	tor ID Number: <u>TAD 00526 8 420</u>	Date Reviewed:
	nspection Representative: Paul Bohnsack	
Title:	Manager of Safety And Youning	Form "i"
Telephone	•	
The question facilities	ons contained in this checklist apply to owners and operators of that store containers of hazardous waste, except as Section 265	all hazardous waste .l provides otherwise.
ort. Regs. O C.F.R.		
5 .171	1. Are all containers in good condition, i.e., not showing s of leakage or corrosion or any other deterioration/deform	igns ation? (ies No
5.171	 Are containers lined or made of materials compatible with hazardous wastes placed into them so that the container w not react or corrode with the hazardous wastes? 	ill (Yes) 20
).173(a)	3. Are all containers holding hazardous waste kept closed dustorage?	ring Yes No
5.174	4. Are areas where hazardous waste containers are stored insport the owner/operator at least once a week?	oected Yes No
1.15(d) 3.15(b)	5. Is an inspection log maintained? (See question #5 of TSD checklist.)	Yes (L)
5.176	6. Are containers holding ignitable or reactive waste located at least 50 ft. from the facility's property line?	Yes ::c
5.177(a)	7. Are incompatible wastes placed in the same container? (Se Appendix 5 for examples.)	ves (No)
5.177(c)	8. Are storage containers holding hazardous wastes which are incompatible with nearby materials stored in containers, t piles, or surface impoundments separated by dikes, berms, w or other devices?	anks, alls,

:	1.	Are	there any tanks which so not being used which the factory longer plans to use?	yesno
:		a.	If yes, has all hazardous waste and hazardous waste residue been removed from these tanks, discharge control equipment, and discharge confinement structures?	yesno
265.192	2.	Are	tanks presently used to treat or store waste?	yesno
		a. b.	If no, do not complete rest of form. If yes, check tanks.	
		٠.	Is there evidence that incompatible wastes have been placed tank? Is there evidence of any ruptures, leaks or corrosion?	in the
		•	(Use narrative explanations sheet)	yesno
	3.	Are	there any uncovered tanks?	yesno
		a . b.	If no, do not complete B-E If yes, do they have 2 feet (60cm) freeboard?	vesno
			or	
		c.	A containment structure? (e.g. dike or trench)	yesno
			or	
		d.	A drainage control system?	yesno
			or	BD
~• ~•		е.	A diversion structure? (e.g. standby tank) (NOTE: The structure in c,d or e must have a capacity that equals or exceeds the volume of the top 2 feet (60cm) of the tank.	yesno
	4.	· Ar	e any of the tanks continuous feed?	yesno
		a.	If yes, is it equipped with a means to stop inflow (e.g. waste feed cutoff or by-pass to a stand-by tank)?	yesnc

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265.193 Waste Analysis

	5.	Is	the tank used to store one waste exclusively?	yes	_no
		a .	If no, what are the different wastes stored in the tank? (Use narrative explanations sheet)		
		. b.	Are waste analyses and trial treatment or storage tests done on these different wastes?	yes	_no
	•		(1) If no, does he have written, documented information on similar storage or treatment of similar wastes?	yes	_ n o
			Are there records available of these waste analyses in the operating record?	yes	_no
65.194	Ins	pect	ions:		
	6.	Does	s the owner/operator inspect the following at least daily?	yes	_no
		a.	Discharge control equipment (e.g. waste feed cut-off, by pass and/or drainage systems)?	yes	_no
		b.	Monitoring equipment (e.g. pressure and temperature gages)?	yes	_no
		c.	Level of waste in each uncovered tank?	ves	_nc
	7.	Does	the owner/operator inspect the following at least weekly?	ves	_no
			Construction materials of tanks for corrosion or leaks? Construction materials of and area surrounding discharge confinement structures for erosion or signs of leakage?	yes yes	_
	_	_	\		
	8.	Is a	<pre>a written schedule of these inspections kept at the facility? _</pre>	yes	_no
	9.	Does	s the facility maintain a record of the closure plan on site?	yes	_no
	10.	Are	e ignitable or reactive wastes placed in tanks?	yes	_no
		a .	If yes, are they treated, rendered or mixed before or immedia after placement in the tank so it no longer meets the definit ignitable or reactive?		_no
			Or		
		b.	Is the waste protected from sources of ignition or reaction?	yes	no

page 2 of 3

3.	(continued)					
	(1) If yes, use narra explanations sheet to descripe paration and confinement procedures					
	(2) If no, use narrative explanations sheet to describe sources of ignition or reaction					
		or				
	c. Is the tank used solely for emergencies?yes					
		incompatible wastes placed in the same tank?yesno				
12.	wast	waste is to be placed in a tank that previously held an incompatibleno				
	a.	If yes, describe washing procedures (Use narrative explanations sheet)				
		Describe how it is possible for incompatible waste to be placed in the same tank. (Use narrative explanations sheet)				

Subpart K

SURFACE IMPOUNDMENTS CHECKLIST

	1.	Are there any surface impoundments which are not being used which the facility does not plan to use in the future?	yes	no
		a. If yes, has all hazardous waste and hazardous waste residue been removed from the impoundment?	yes	no
	2.	Are impoundments presently used to treat or store waste?	yes	no
		a. If no, do not complete rest of form.b. If yes, check impoundments.		
2 65 .2 22		Does the impoundment appear to maintain at least 2 feet (60 cm) of freeboard?	yes	no
	4.	Is there evidence of overtopping of the dike?	yes	no
2 65 .2 23	5.	Does the impoundment have a containment system?	yes	no
		a. Does the earthen dike have a protective cover (e.g. grass, shale, rock) to minimize wind and water erosion? (Use narrative explanations sheet)	ves	no
	6.	What wastes are treated in the impoundment? (Use narrative explan	ations s	heet)
2 65 .2 25	7.	Are waste analyses and trial tests conducted on these wastes?	yes	no
		a. If not, does the owner/operator have written documented information on similar treatment of similar wastes?	yes	_no
•	8.	Is this information retained in the operating record?	yes	_no
	9.,	Is the impoundment inspected dally to check freeboard level?	yes	nc_
	10.	Is the impoundment, dikes and vegetation surrounding the dike inspected weekly to detect leaks, deterioration or failures?	yes	_nc

page 1 of 2

11.	Does	s the facility main a record of the closure plan e? (Effective May 1941)	yesn
12.	Are	ignitable or reactive wastes placed in the impoundment?	yesn
		If no, do not complete b and c. If yes, are they treated, rendered or mixed before or immediately after placement in the impoundment so it no longer meets the definition of ignitable or reach	tive?
			yesn
•	с.	Is the impoundment used solely for emergencies?	yesn
13.	Are	incompatible wastes placed in the impoundment?	yesno

	NOT	E: Waste piles may all the managed as a landfill.
2 51	1.	Is the pile containing hazardous waste protected from wind?yesno
52	2.	Is a representative sample of waste from each incoming shipment analyzed before the waste is added to the pile to determine the compatibility of the wastes?
	3.	Does the analysis include a visual comparison of color and texture?
3	4.	Is the leachate or run-off from the pile considered a hazardous waste? (Effective November 19, 1981)
		a. If yes, is the pile managed with the following?
		(1) An impermeable base compatible with the waste?yesno (2) Run on diversion?yesno (3) Leachate and run-off collection?yesno
		b. 1. Is the pile protected from precipitation and run-on by some other means?vesno
,	5.	Are ignitable or reactive wastes placed in the pile?vesno
		a. If yes, does the addition of the waste result in the waste or mixture no longer meeting the definition?yesno (Use narrative explanation sheet to describe procedure)
		or
		b. Is the waste protected from sources of ignition or reaction?yesno
		. (1) If yes, use narrative explanations sheet to describe separation and confinement procedures.
		(2) If no, use narrative explanations sheet to describe sources of ignition or reaction.
	6.	Is the pile separated from other sources of reaction by a dike, berm or wall?
	7.	Is there evidence of fire, explosion, gaseous emissions, leaching or other discharge? (Use narrative explanation sheet)
		page 1 of

**				\		
65 .2 72	1.	Is r (Eff	un-on diverted away .rom ective May 19, 1981)	the land treatment	facility	yesno
	2.	Is r (Eff	un-off from the land trea ective May 19, 1981)	tment facility coll	ected?	yesno
	3.	Is t	he runoff analyzed to see	e if it is a hazardo	us waste?	yesno
		a.	If the run-off is conside (Use narrative explanation	ered hazardous, how ons sheet)	is it handled?	· .
		b.	If it is not a hazardous source to surface waters	waste, is it_discha?	rged through a	point yesno
			(1) If yes, list NPDES I	Permit No		
	4.	What	hazardous wastes are tr	eated at the land tr	eatment facilit	y?
		Subt	eart D Listed Wastes	Charac	teristic Wastes	(EP Toxicity)
265.2 73		Α.	For those listed wastes, of those constituents wh	were analyses done ith caused the waste	to determine the to be listed?	e concentrations
			(1) If yes, what are th	ese concentrations?	(Use narrative	explanation sheet)
		В.	For those characteristic of the following	Wastes (EP) Toxici	ty, what are the	concentrations
•			Concentration (Mg	/1)	Waste	
	Ba Ca Ch Le Me Se Si En Li Me To	rcury leniu lver drin ndane thoxy exaphe 4 D	m m chlor			·
	-,		300 000 000 000			

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65.276	Э.	Are	1000	C.114 111 C.1	obs 8							E3
		a.		s, what	are the	concer	ntration	s of the	followin	g in the	soil a	ind
			Co	s ncentrat	oil ion (1	mg/1)		Vegetati Concentr	on ation (mg	/1)		
-	Arse Cadn Lead Mero	n i u m d										
	6.	Did	the f	acility	notify	the RA	that he	e is grow	ing food	chain cro		esno
	7.	Is 1	the fo	llowing	inform	ation ke	ept at 1	the facil	ity?			esno
		a.b.c.d.e.f.g.	used Crop Soil Sampl Sampl Analy	for the at the for the characte e selecte e size of tical mestical processions.	facilit eristic eristic cion cr determi ethods	y? s? iteria? nation? used?	tes and	applicat	ion rates	being		es no
	8.	Does	s the	facility	treat	waste 1	that cor	ntains ca	dmium?		v	es <u>n</u> c
		a.	If no	, do not	fill	out bac						
		b.	If ye at th	s, was t e time d	he pH of each	of the waste a	soil ar applicat	nd waste : ion?	mixture 6	.5 or gre		esno
				If the p concentr					waste c	ontain ca		esno
		С.	per h	e annual ectare) for hum	for th	e follow	wing:to	cadmium bacco, l	less than eafy vege	0.5 Kg/h tables, c	or root	ograms crops esno
			(1)	For all applicat	other ion ra	food\cha te l e ss	ain crop than 2.	os, is the O Kg/ha	e annual (Until 6	cadmium /30/84)		esno
2 65 . 278	9. ~	Is	an uns	aturated	zone i	monitor	ing plar	kept at	the faci	lity?	y	esno

4	10.	Does the plan include:	
•		 a. Soil monitoring b. Soil pore water monitoring c. Sample depths below waste incorporation d. Number of samples to be taken e. Frequency and time of sampling f. Analysis of samples 	yesnoyesnoyesnoyesnoyesno
2 65.279	11.	Are records kept at the facility of a. Application dates b. Application rates c. Quantities d. Waste location	yesno yesno yesno
265.2 80	12.	s about of the facil	ity?yesno
265.281	13.	Are ignitable or reactive wastes placed in the facility? a. If yes, are the wastes treated, rendered or mixed before after placement in the landfill so it is no longer reactions.	tive or ignituation.
		b. Describe or attach a copy of treatment.	yesno
	14.	Are incompatible wastes placed in the facility? a. Are the incompatible waste placed in different location facility?	yesno s in theyesno

· 265.3 02	1.	Is run-on diverted from the landfill? (Effective November 19, 1981)	yes_	nc
	2.	Is run-off from the landfill collected? (Effective November 19, 1981)	yes	n
		a. Is this waste analyzed to determine if it is a hazardous waste —	? yes	n
		(1) If it is a hazardous waste, how is it managed? (Use narrative explanations sheet)		
		-(2) Is the collected run-off discharged through a point source to surface waters?	yes	nc
		(a) If yes, list NPDES Permit Number		
	3.	Is the landfill managed so that wind dispersal is controlled? (Note blowing debris)	y e s	nc
٠	4.	Is the following information maintained in the operating record?	yes	_nc
	5.	Are reactive or ignitable wastes placed in the landfill?	yes	no
		a. If yes, is it treated, rendered or mixed before or immediately after placement in the landfill so it is no longer reactive or ignitable?	yes	_no
		b. Describe treatment, etd, or attach a copy of treatment.		
-•	6.	Are incompatible wastes placed in the same landfill?	yes	_no
	7.	Are bulk or non-containerized liquid wastes or wastes containing free liquids placed in the landfill? (Effective November 19, 1981)		
-		a. If yes, does the landfill have (1) A chemically and physically resistant liner? (2) Functioning leachate collection and removal system? or	yes yes _yes	_no _no _no
		b. 1. Is the liquid waste treated chemically or physically so that free liquids are no longer present? (Effective November 19, 1981)	yes	_no

				e landfill?yes	
2 65. 3 14	8.	Are	containers holding liquid wastes placed in the landfill?	yes_	_no
		a.	If yes, is the container designed to hold liquids for a use other than storage? (eg battery, capacitor) (Effective November 19, 1981)	yes_	no
2 65. 3 15	9.	Are	empty containers placed in the landfill?	yes	no
		a.	If yes, are they reduced in volume (eg shredded, crushed)? (Effective November 19, 1981)	ves_	no
	10.		there evidence of site instability? (e.g. erosion, settling)? se narrative explanations sheet)	?yes	no
	11.		there evidence of ponding of water on-site? se narrative explanation sheet)	yes	no
	12.		there any indication of improper or inadequate drainage?	yes	no

265.310 13. Does the facility maintain closure and post-closure plans?

. 0	
2 65. 3 43 1.	Is the incinerator operating at steady state conditions (temperature and air flow) before adding hazardous waste?yesno
265.345 2.	Is a waste analysis documented on the operating record that includes:
-	a. Heating value b. Halogen content c. Sulfur content d. Concentration of lead e. Concentration of mercury yes no yes no yes no yes no
	(Note: D&E not required if facility has written documented data that show the elements are not present.
26 5. 3 47 3 .	Does the owner/operator monitor the following when incinerating hazardous waste?
	a. At least every 15 minutes, existing instruments which relate to combustion and emission control including:
	(1) Waste feed (2) Auxiliary fuel feed (3) Air flow (4) Incinerator temperature (5) Scrubber flow (6) Scrubber pH (7) Relevant level controls yes no yes no yes no yes no
	b. Stack plume (emissions) at least hourly for:
	(1) Color (normal) (2) Opacity ·yesno
	c. Incinerator and associated equipment at least daily including:
	(1) Pumps, valves, conveyors, pipes for leaks, spills, and fugitive emissions (Use narrative explanations sheet) yes no (2) Emergency shutdown controls yes no (3) System alarms yes no

265.351 4. Is a closure plan maintained at the facility? (Effective May 19, 1981)

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yes__no

2 65 .3 73	1. Is the process a non-continuous (batch) process?	yes_	no
•	a. If no, is the process operating at steady state conditions (including temperature) before adding hazardous waste?	yes_	_no
2 65.375	b. Is a waste analysis documented in the operating record that includes		w production
_	1. Heating value		7
-	2. Halogen content	yes yes	_no
	3. Sulfur content	yes_	no
	4. Concentration of lead	yes_	-no
	5. Concentration of mercury	yes	_no
	NOTE: 4&5 not required if facility has written documented data that selements are not present)	show the	
2 65. 3 77	2. Does the owner/operator monitor the following when thermally treat hazardous wastes?	ing yes	_no
	a. At least every 15 minutes, existing instruments which relate to temperature and emission control:		
	1. Waste feed	yes	no
	2. Auxiliary fuel feed	ves	no
	3. Treatment process temperature	yes	no
	4. Relevant process flow	yes	no
	5. Relevant level controls	yes	_no
	b. Stack plume (emissions) at least hourly:		
•	1. Color (normal) 2. Opacity	yes yes	_no
	c. Thermal treatment process equipment at least daily		
	1. Pumps, valves, conveyors, pipes, etc - for leaks, spills		
	<pre>and fugitive emissions? 2. Emergency shutdown controls?</pre>	yes ves	_no
	3. System alarms	yes	-no
	\		

NOTE: Applies to thermal treatment of hazardous waste in devices other than incinerators.

May 19, 195.,			yes_	no
idence of any open buive explanations shee	rning of hazardous	waste?	yes_	no
ning or detonation of	waste explosives o	conducted?	yes_	_no
is the detonation pelowing table?	rformed in accordan	nce with	yes_	_no
-1, 0 00 -10,000	38 53	30m(1,250 ft) 30m(1,730 ft)		
	ning or detonation of is the detonation pelowing table? of waste explosives ropellants -1,000 -1,000	idence of any open burning of hazardous ive explanations sheet) ning or detonation of waste explosives of the detonation performed in accordance lowing table? Of waste explosives or detonation of the detonation performed in accordance of the detonation of the de	idence of any open burning of hazardous waste? ive explanations sheet) ning or detonation of waste explosives conducted? is the detonation performed in accordance with lowing table? Of waste explosives or detonation to the propellants -100 -1,000 -1,000 204m(670 ft) 380m(1,250 ft) 530m(1,730 ft)	idence of any open burning of hazardous waste? ive explanations sheet) ining or detonation of waste explosives conducted? is the detonation performed in accordance with lowing table? of waste explosives

CHEMICAL, PHYSICAL & BIOLOGICAL TREATMENT

CHECKLIST

Q

NOTE: Applies to treatment in other than tanks, surface impoundments, and land treatment facilities.

	Check treatment process and equipment:
	a. Are there any leaks, corrosion or other failures evident?yesno
2.	Is the process a continous feed system?yesno
	a. If yes, is it equipped with a means to stop waste inflow (e.g. waste feed cut-off system or by-pass)?yesno
3.	Is waste analysis information maintained in the operating record?yesno
4.	If a hazardous waste is received which is substantially different from any hazardous waste previously treated at the facility, are the following obtained?
	a. Waste analyses and trial treatment tests (eg bench scale)?yesno b. Written documented information on similar treatment of similar waste?yesno
5.	Does the owner/operator inspect the following, where present?yesno
	 At least daily. Discharge control and safety equipment (eg waste feed cut-off, by-pass, drainage or pressure relief systems)?
	 Data gathered from monitoring equipment (eg pressure and temperature gauges)? yesno
	 At least weekly. 1. Construction materials of treatment process or equipment to detect erosion or obvious signs of leakage?
6.	Does the facility maintain a closure plan? Wes_no (Effective May 19, 1981)
7.	Are ignitable or reactive wastes placed in the treatment process?
	a. If yes, is the waste treated, rendered or mixed before or immediately after being placed in the treatment process so it no longer meets the definition of ignitable or reactive?yesno Describe or attach a copy of the treatment.
	 4. 6.

1

EPA IDENTIFICATION NUMBER

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS

I. General Information:

(A)	Facili	ty Name: 1:4%	N - Clifton	hecision	Lontumen	E & Like	surport 0	
(B)	Street	: 2734 74	ickory Gr	ove Road	/			
(C)	City:	DA Venport		(D) State:	IA		E) Zip Code:	52804
		319-38						
(H)	Operator	r:SAI	ne -	PAU	IE	Bohnsac	K- mang	en a
(I)	Street:	r:				Sofety a	of training	
(J)	City: _			(K) State	e:		(L) Zip Cod	de:
(M)	Phone:	,	ent comment and	(1	N) County:			***************************************
	:		÷ ~					
(0)	Owner:	R Esta	and Fis	her - v	P. Ces	real m	in age	
(P)	Street:			,5.0			0	
(Q)	City: _			(R) State:	3		(S) Zip Co	de:
(T)	Phone:	· · · · · · · · · · · · · · · · · · ·			(U) County	·:		
	,	e fitti		F-4>			V	
(v)	Type of	Ownership:					Privat	е
(,	1 3 PC 01	owner strip.		State	c	ounty		2
(W)	Date of	Inspection :	-13-83	(Q) Time of	Inspection	(From) 10,	.30 (To)	4:30
		Conditions:		in ora				
,								
- "				 				

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Dave Whiting Tom Roberton Per II. Description of Sin A) Generator (Form 2) C) Chemical, Physical and Biological Treatment (Form 4) E) Landfill (Form 6) G) Land Treatment (Form 4) Comments: Air Craft Instrumentation	(B)	ty Transporter Storage (Fo	8/4-337-8 (Form 3)
Dave whiting Tom Roberton Popt 11. Description of Signature 12. Description of Signature 13.	(B)	ty Transporter Storage (Fo	8/4-337-8 (Form 3) rm 5) n (Form 7)
II. Description of Signature	(B)	ty _ Transporter <pre> Storage (Fo _ Incineration)</pre>	(Form 3) rm 5) n (Form 7)
II. Description of Single Senerator (Form 2) Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: Aircraft Instrumentation	e Activi (B) (D) (F)	<u>ty</u> _ Transporter 	(Form 3) rm 5) n (Form 7)
Generator (Form 2) Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: All Craft Instance reaction	(B) (D) (F)	Transporter <pre> Storage (Fo Incineration) </pre>	rm 5) n (Form 7)
Generator (Form 2) Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: All Craft Instance reaction	(B) (D) (F)	Transporter <pre> Storage (Fo Incineration) </pre>	rm 5) n (Form 7)
Generator (Form 2) Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: All Craft Instance was taken	(B) (D) (F)	Transporter <pre> Storage (Fo Incineration) </pre>	rm 5) n (Form 7)
Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: Air Craft Instrumentation	(D) <u> </u>	<pre> Storage (Fo Incineratio </pre>	rm 5) n (Form 7)
Chemical, Physical and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: Air Craft Instrumentation	(D) <u> </u>	<pre> Storage (Fo Incineratio </pre>	rm 5) n (Form 7)
and Biological Treatment (Form 4) Landfill (Form 6) Land Treatment (Form 4) Comments: All Craft Instrumentation	(F)	_ Incineratio	n (Form 7)
Land Treatment (Form 4) Comments: Air Craft Instances Takin	(F)	_ Incineratio	n (Form 7)
Land Treatment (Form 4) Comments: All Craft Instances Takin			
Comments: All Craft Instancementation	(н)	_ Thermal Tre	atment (Form 7
•:			
•			
*:		•	
•••			-
••			
			•
Supplemental forms (Listed in Parathesis) mus inspected. Attach all Supplemental forms to	be comp	oleted for each	ch activity
Yes	0	Not Inspected	See Remark Number
Has this facility			
Submitted a Part A Permit Application?			
			_

RCRA PLIANCE INSPECTION REPORT

	<u>Sec</u>	tion	A - EPA Identification No.	
	1.	Doe	s Generator have EPA I.D. No.?	X Yes No
			If yes, EPA I.D. No. IADO05268420	7
262.21	Sec	tion	B - Manifest	· .
	1.	Doe	s generator ship waste off-site?	
		a.	If no, do not fill out Sections B and D.	
		b.	If yes, identify primary off-site facility(s) Use marratexplanations sheet.)	ive
•	2.	Doe	s generator use Manifest?	$\underline{\chi}$ Yes $\underline{}$ No
261.5		a.	If no, is generator a small quantity generator?1. If yes, does generator indicate this when sending waste to a T/S/D facility	Yes No NA Yes No NA
		b.	If yes, does manifest include the following information?	•
			1. Manifest Document No.	<u> </u>
	•		2. Generators Name, Mailing Address, Telephone No.	X Yes No
			3. Generator EPA I.D. No.	<u> </u>
				<u> </u>
			5. a. Facility Name, Address and & EPA I.D. No. b. Alternate Facility Name, Address and EPA ID NO. c. Instructions to return to generator if undeliver able?	
			 Waste information required by DOT - Shipping name, quantity, (weight, or vol.) containers (type and number.) 	Yes <u></u> No
			 Emergency Information (optional) (special handling instructions, phone no.) 	<u> </u>
Mary Wast	مرا ا	Think	n Previously ated in state report	
maste waste			· /	1.05.4

page 1 Of 4

				2		pified	by state of	
			Is the following manifest form?	_	on on each /	III/M	Yes No	
			This is to cert materials are propackaged, marked per condition for the applicable of Transportation	roperly class d and labeled or transporta regulations o	ified, describ and are in pr tion according f the Departme	o- to nt	, , ,	
		(9)	Does Generator	retain copies	of Manifests?	_	Yes No	
	If yes,	complet	e a through e.					
TIA (kin)	a.	(1) [(2))id generator sig Who signed for g	gn and date a enerator?	ll manifests? Name <u>Vacies</u>		$\frac{X}{X}$ YesNo	_
AS Jakes And	b.		oid generator obtained and displayed and dis	ce from initi	al transporter	? /	Yes No	_
March of the Mile	с.		generator retain nerator and tran		manifest signe	d		
The Fe	· d.		turned copies of tor signature an			owner/	<u> </u>	
	e.	Does	generator retain	copies for 3	years?	_X	Yes No	
	Section	C - Ha:	zardous Waste De	termination				
262.12	(Li	st of H	ator generate so azardous Waste)?		See Part A	art D	Yes No	
	a.	If ye	s, list wastes a ude EPA Hazardou	nd quantities s Waste No.)	7001 FOUS	9, F005, F	007, 7008,	-
See Photo's #'5/5/2	2. Does	s gener racteri toxicit	ator generate so stics? (corroso y)		that exhibit hility, reactive		_ Yes No	
,		If yes (inclu	, list wastes an de EPA Hazardous	d quantities Waste No.)	Part A"		not on	-
	b.	Does g	enerator determi lying knowledge	ne characteri of processes?	stics by testi	ing or	16/50	-
		1. If me	determined by t thods in Part 26	esting, did g l, Subpart C	enerator use t (or Equivalent	est :)?	_ Yes No &	A.
•		a.	If equivalent equivalent met		used, attach o	opy of		

	3.	Are there any other lid wastes generated by generals?	X Yes No
		a. If yes, did generator test all wastes to determine non-hazardous characteristics?	<u> </u>
sephoto to	13	 If no, list wastes and quantities deemed non-hazard or processes from which non-hazardous waste was pro (Use additional sheet if necessary.) 	ous duced? ,
		by Kniwledge of lucin and Materials WASTE ACID	s in Storage
		not listed as layerlans commised with no	
		wents,	
	Sec	tion D - Pre-Transport Requirements	
	1.	Does Generator package waste in accordance with 49 CFR 173 178, and 179? (DOT requirements)	
265.174	2.	 Are containers to be shipped leaking or corroding? Use sheet to describe containers and condition. 	Yes No
		c. Is there evidence of heat generation from incompatible wastes in the containers?	Yes <u>X</u> No
262.32	3.	Does the generator use DOT labeling requirements in accordance with 49 CFR 172?	Yes No
	4.	Does the generator mark each package in accordance with 49 CFR 172?	<u> </u>
	5.	Is each container of 110 gallons or less marked with the following label?	Yes No
		Label saying: <u>HAZARDOUS WASTE</u> - Federal Law Prohibits Improper Disposal. If found, contact the nearest policy or public safety authority or the U.S. Environmental Pro- tection Agency.	
		Generator's Name and Address	
		Manifest Document Number	· ·
2 52 .3 3	6.	Does generator have placards to offer to transporters?	Yes No
262.34	7.	Accumulation Time	
		a. Are containers used to temporarily store waste before transport?	X Yes No
ARC W.	John	, b	page 2 of

	1. If yes, is each container clearly dated? Also, fill out rest of No. 7 (Accum. Time) X YesNo
	>b. 1. Does generator inspect containers for leakage or corrosion? (265.174 - inspections) 2. If yes, with what frequency?
	c. Does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) from the facility's property line? (265.176 - Special Requirements for Ignitable or Reactive wastes)
NC	OTE: If tanks used, fill out checklist for tanks.
	d. Are the containers labeled and marked in accordance with Section D 3, 4, & 5 of this form? YesNo
NC	OTE: If generator accumulates waste on-site, fill out checklist for General Facilities, Section B - Preparedness and Prevention, Section C - Contingency Plan and Emergency Procedures
	e. Does generator comply with requirements for personnel training? (Attach checklist for 265.16 - Personnel Training)YesNo
8.	Describe storage area. Use photos and narrative explanation sheet.
52.40 <u>Sect</u>	tion E - Recordkeeping and Records
	1. Does gnerator keep the following reports for 3 years?
	a. Manifests and signed copies from designated facilities? b. Annual reports c. Exception Reports none none d. Test results X Yes No Yes No Yes No Yes No
	2. Where are records kept (at facility or elsewhere)? at facility 3. Who is in charge of keeping the records? Name full Bowsqck Title
Sect	tion F - Special Conditions
62.50	1. Has generator received from or transported to a foreign source any hazardous waste? a. If yes, has he filed a notice with the Regional Administrator? b. Is this waste manifested and signed by Foreign consignee? c. If generator transported wastes out of the country, has he received confirmation of delivered shipment? YesNoNA

ANCE INSPECTION REPORT

260	tion A - General Facility Standards	
1.	Does facility have EPA Identification No.?	<u> </u>
	A. If yes, EPA I.D. No. <u>IADO0526842</u> If no, explain	<u></u>
2.	Has facility received hazardous waste from a foreign source?	Yes No
	A. If yes, has he filed a notice with the Reg. Admin.	Yes No
Was	te Analysis	
3.	Does facility maintain a copy of the waste analysis plan at the facility?	<u> </u>
	A. If yes, does it include	1
	(1) Parameters for which each waste will be analyzed?	Yes No
	(2) Test methods used to test for these parameters?	<u> </u>
	(3) Sampling method used to obtain sample?	Yes No
	(4) Frequency with which the initial analysis will be reviewed or repeated? once everytwo, Kean	Yes No
	(5) (for off-site facilities) Waste analyses that gener have agreed to supply?	rators Nes No
	(6) (for off-site facilities) Procedures which are used inspect and analyze each movement of hazardous wast including:	
	•	

		b. Sampling method to be used to obtain represent sample of the waste to be identified?	ative Ves No
365.14	4. Do	es the facility provide adequate security through	
	· A.	24-hour surveillance system? (e.g. television monitoring or guards)	Yes No
		<u>OR</u>	
	В.	(1) Artificial or natural barrier around facility (e.g. fence or fence and cliff)? Describe AND	Yes No
		(2) Means to control entry through entrances (e.g. attendant, television monitors, locked	\/
ζ.		entrance, controlled roadway access)? Describe	Yes No
265.15 (b) 5. Doe	Inspection Requirements es the owner/operator maintain a written schedule at the cility for inspecting: a. Monitoring equipment?	v V
Part B		File of finews - bounded	Yes <u></u>
Part B		b. Safety and emergency equipment? 7,157 ADE -51, nurse recode not	Ag sile No
	\	c. Security devices? Tences by games - fintering not part y by seconds	YesNo
inspection rewish		d. Operating and structural equipment?	YesNo
		e. Types of problems of equipment?	
		1. malfunction	YesNo
	-	2. operator error	YesNo
		3. discharges	YesNo

A.	If yes, does it include:		
	(1) Date and time of inspection?	Yes	_ No
	(2) Name of inspector?	Yes _	_ No
<i>x</i>	(3) Notation of observations?	Yes	_ No
· · · · · · · · · · · · · · · · · · ·	(4) Date and nature of repairs or remedial action?	Yes	_ No
В.	Are there any malfunctions or other deficiencies not corrected? (Use narrative explanation sheet).	Yes	No
Person	nel Training		
Re	es the owner/operator maintain Personnel Training cords at the facility? w long are they kept? <u>3/ear menegum</u>	<u> </u>	No
, A.	If yes, do they include: there is only I person in each 206	¿ (ASS; fication	
A. S 10 man cirper 12/10/83	(1) Job title and written job description of each position?		_ No
9 ->	(2) Description of type and amount of training?	Yes	√ No
sim	(3) Records of training given to facility personnel?	X Yes	_ No
Require	ements for Ignitable, Reactive or Incompatible Waste		
a) 8. Doe	es facility handle ignitable or reactive wastes?		_ No
A.	If yes, is waste separated and confined from sources of ignit in or reaction, (open flames, smoking, cutting and welling, hot surfaces, frictional heat) sparks (statelectrical) or mechanical), spontaneous ignition (e.g. fineat producing chemical reactions) and radiant heat?	tic,	Elec No
are having	 If yes, use narrative explanations sheet to describ separation and confinement procedures. If no, use narrative explanation sheet to describe of ignition or reaction. 	е .	
. 16. 1	are not thoughly families will record and all argent of Sacility	operation	page

		В.	Are smoking and flame confined to specifically designated locations?	<u>√</u> Yes	No.
/>		c.	Are "No Smoking" signs posted in hazardous areas?	Y Yes	No
Marketh (b)	9.	Ch	eck containers	,	-0.55
wants were		Α.	Are containers leaking or corroding?	Yes	X No
William .		В.	Is there evidence of heat generation from incompatible wastes? (Use narrative explanations sheet to describe condition	Yes of contain	× No
265.31	Sec	tio	n B - Preparedness and Prevention		
See Photo	1.	Is th	there evidence of fire, explosion or contamination of environment?	Xes	No
7 45		If	yes, use narrative explanations sheet to explain.		
265.32	2.	Is	the facility equipped with		
(Α.	Internal communication or alarm system?	X Yes	No
			(1) Is it easily accessible in case of emergency?	X Yes	No
	-	В.	Telephone or two-way radio to call emergency response personnel?	Yes	No
	-	с.	Portable fire extinguishers, fire control equipment spill control equipment and decontamination equipment?		No
265.33			(1) Is this equipment tested to assure its proper operation?		No
		D.	Water of adequate volume for hoses, sprinklers or water spray system?	<u>X</u> Yes	No
			(1) Describe source of water DAVenday T		

265.3 5	3.	movement of personnel and equipment?	Yes No
?65 . 37	4.	Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.)	
65.50	5.	In the case that more than one police and fire department might respond, is there a designated primary authority? a. If yes, list primary authority	<u> X</u> Yes No
55.52 (a)	6.	Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? Are they readily available to all personnel?	<u>X</u> Yes No <u>X</u> Yes No
(c)	7.	Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?	
	8.	If State or local authorities decline to enter, is this entered in the operating record?	Yes 🔀 No
65.52	Sec	ction C - Contingency Plan and Emergency Procedures	
	1.	Is a contingency plan maintained at the facility?	<u>X</u> Yes No
Š.		a. If yes, is it a revised SPCC Plan?	Yes No
	2.	Is there an emergency coordinator on site at all times?	Yes No
	Sec	ction D - Manifest System, Recordkeeping and Reporting	
65.71	1.	Does facility receive waste from off-site?	YesX No
		a. If yes, does the owner/operator retain copies of all manifests?	Yes No
D. 1 bohn	SACK		

page 5 of 7

	(1) Are the median fests signed and dated and returned to the generator?	χ Yes	No
	(2) Is a signed copy given to the transporter?	X Yes	No
2.	Does the facility receive any waste from a rail or water (bulk shipment) transporter?	Yes	<u>X</u> No .
_	a. If yes, is it accompanied by a shipping paper?	Yes	No /
	(1) Does the owner/operator sign and date the shippi paper and return a copy to the generator?	ng Yes	No
-	(2) Is a signed copy given to the transporter?	Yes	No
3.	Has the owner/operator received any shipments of waste which were inconsistent with the manifest? (manifest discrepancies)	Yes	X No
	 If yes, has he attempted to reconcile the discrepancy with the generator and transporter? If no, has Regional Administrator been notified? 	Yes	
4.	Does the owner/operator keep a written operating record at the facility?	X _{Yes}	No
	A. If yes, does it include:		
	(1) Description and quantity of each hazardous waste received?	$\frac{\lambda}{2}$ Yes .	No.
	(2) Location and quantity of each hazardous waste at each location?	_X γes	No
	(3) Records and results of waste analyses?	$\underline{\hspace{1em}}^{\hspace{1em} \hspace{1em} \hspace{1em}}$ Yes	No
	(4) Reports of incidents involving implementing of the contingency plan?	Yes _	No /\

			(5)	Records and results of required inspections?	Ye	s X	No
			(6)	Monitoring, testing or analytical data?	XY	s	No
			(7)	Closure cost estimates and for disposal facilities post-closure cost estimates? (Not effective until May 19, 1981.) TINAVAN ASSUIMES COOPERS GOUINGE - 2-22-83 TIANSMITTER	YE KO ERA	!s	No
(5 5.7 5	5.	the	small	acility received any waste (that does not come under generater exclusion) not accompanied by a manifest?	Ye	s X	
Ç		à.	If ye Regio	s, has he submitted an unmanifested waste report to the nal Administrator?	Yes 📝	/ No	

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EPA	ID NO	_

RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

SECTION 3	PART							
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on site	shows evidence of stains, spengling & CIACKS 0'lly now. See proto'S #'S 4 & 5							
								
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RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

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CECTION	PART		
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3 CAIDON'S AFFERDA AS NATE ACIDS - CLECTTO FOLISH SOLUTIONS Photo #3

3 CAIDON'S AFFERDA AS NATE ACIDS - CLECTTO FOLISH SOLUTIONS Photo #3

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HAZARDOUS WASTE

PERSONNEL TRAINING





PREFACE

Hazardous Waste Management facilities are required to train those persons who, as a part of their regular duties, are intimately involved with the daily handling and movement of the identified wastes. Since the number in this group is extremely small, we feel it is to our mutual advantage to provide a broad training program to others throughout the facility. This will include the background information and reasoning for the HWM Plan. It is hoped this will foster cooperation by those who are peripherally involved so that waste quantities can be reduced, new inventory and waste hauling costs can be reduced and the importance of waste segregation is realized.

All of these personnel will receive the information contained in Sections 1 through 3. Those who need more intensive training will additionally be provided the information contained in Section 4. Appropriate training records will be maintained for both groups. Retraining will be conducted annually for those initmately involved in the plan compliance.

If you have any questions regarding Hazardous Waste Management at this facility, contact your supervisor or the undersigned.

Paul E. Bohnsack

Litton

HAZARDOUS WASTE TRAINING MANUAL CONTENT

- 1.0 Introduction
 - 1.1 The Resource Conservation and Recovery Act RCRA
 - 1.2 Chemical Hazards
- 2.0 Facility and Process Description
 - 2.1 Description of Wastes to be Managed
 - 2.2 Description of Storage Facility
 - 2.3 Key Terms of the Permit
 - 2.4 Normal/routine Operations
 - 2.5 Waste Analysis
 - 2.6 Recordkeeping and Reporting Requirements
 - 2.7 Security
 - 2.8 Inspections
- 3.0 Emergency Procedures and Contingency Plans
 - 3.1 Emergency Coordinator
 - 3.2 Emergency Procedures
 - 3.3 Emergency Communications/Phone Numbers and Alarms
 - 3.4 Location, Maintenance, Inspections, and Use of Emergency Equipment
 - 3.5 Spill Control and Response to Groundwater Contamination Incidents
 - 3.6 Fires and explosions
 - 3.7 Power Interruption or Failure
 - 3.8 Severe Weather
- 4.0 Detailed Instruction
 - 4.1 Hazardous Waste Characteristics
 - 4.2 Hazardous Wastes
 - 4.3 Safety
 - 4.4 Emergencies
 - 4.5 Inspection
 - 4.6 Identification and Inventory Control

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HAZARDOUS WASTE TRAINING

1.0 Introduction

1.1 Resource Conservation and Recovery Act

In 1976, Congress passed the Resource Conservation and Recovery Act (RCRA). The stated objectives of RCRA are to promote the protection of human health and the environment and to conserve valuable material and energy resources. Subtitle C of RCRA specifially concerns the management of hazardous waste.

The following elements are the key to the Federal hazardous waste management regulatory program under RCRA:

- definition of hazardous waste
- a manifest system to track hazardous waste from its generation to its final disposal
- standards for generators and transporters of hazardous waste
- permit requirements for facilities that treat, store, or dispose of hazardous waste
- requirements for state hazardous waste programs

On May 19, 1980, regulations promulgated under RCRA (over 500 pages) required, among other things, that owners or operators of hazardous waste management facilities train selected personnel. This is the reason we ask you to be certain you sign the attendance sheet. We must have these on file for review by the EPA or Iowa DEQ.

1.2 Chemical Hazards

An assessment of the hazardous wastes generated in recognizable quantities in this plant indicates that three classes of problems could exist: <u>ignitability</u>, or materials which have a flash point below 140°F, as with alcohol; <u>toxicity</u>, or materials which could have a deleterious effect if taken into the body in sufficient amounts, for example, chromic acid, and <u>reactivity</u>, or materials which have a potential for reacting with other materials, such as acids or caustics.



2.0 Facility and Process Description

2.1 Description of wastes to be managed

The description column in Figure 1 lists the materials which are considered as hazardous wastes, and which may be encountered in our operation. Also noted are some other data, as to EPA numbers, codes, etc. which we should discuss.

2.2 Description of Storage Facilities

The regulations are rather explicit for plants which store hazardous wastes for over 90 days. We are such a plant, therefore, a new building will be erected along the west end of the main plant for the storage of our hazardous wastes.

This can be a complicated subject, but the rate of accumulation at our plant does not warrant such systems as storage tanks, piping, pumps, waste piles, treatment facilities, etc. All wastes which we generate can be conveniently stored in suitable 55 gallon drums.

The drawings in Figure 2 and Figure 3 show the concept of the proposed Hazardous Waste Storage Building.

2.3 Key Terms of the Permit

A Hazardous Waste Permit Application must cover the following:

- ...Facilities Description
- .. Waste Characteristics
- ..Process Description (Waste container management, etc.)
- ..Procedures to Prevent Hazards (Precautionary Procedures)
- ..Contingency Plan (What to do if an Emergency Develops)
- ...Training Plan
- .. Closure Plan (Plans for future Complete Abandonment of Site)

All manufacturers who generate and store over 2,200 pounds (approximately 5 drums) per month of materials defined as hazardous wastes are now required to apply for a special EPA permit. An iterim permit application was required by November, 1980, and an application for a final permit was to be "on request".

We complied with the first part two years ago, and have now been notified our final permit application is due by October, 1982.

The implications of qualifying or operating to this regulation are very involved. The final permit application outline alone is over 8 pages long and includes scores of references to State and Federal Regulations.



GENERIC CATEGORY	EPA HW NO.	HAZARD CODE	DESCRIPTION	WHERE USED
Chlorinated Solvents	F001	Т	l,l,l-Trichloroethane Trichloroethylene	Vapor degreasers in Tumbling, parts wash, plating
Thinners	F003	I	Acetone Xylene Butyl Alcohol Cyclohexane	Various areas in fabrication and assembly
	F005	I,T	Methanol Ethyl Alcohol Denatured Alcohol Isopropyl Alcohol MEK Toluene Hexane Paint & lacquer Thinne	Various areas in fabrication and assembly
Spent Plating Baths	F007	R,T *-	Chromic Acid Cadmium cyanide Copper cyanide Silver cyanide Tin Chromate baths	Plating
Plating Sludges	F008	R,T *	Any of F007	Plating
Spent Acids	F009	R,T *		Plating
Heat Treat Oil Sludges	F010	R,T		Heat Treating
Heat Treat Salts	F011	R,T	Nitrate & Nitrites	Heat Treating

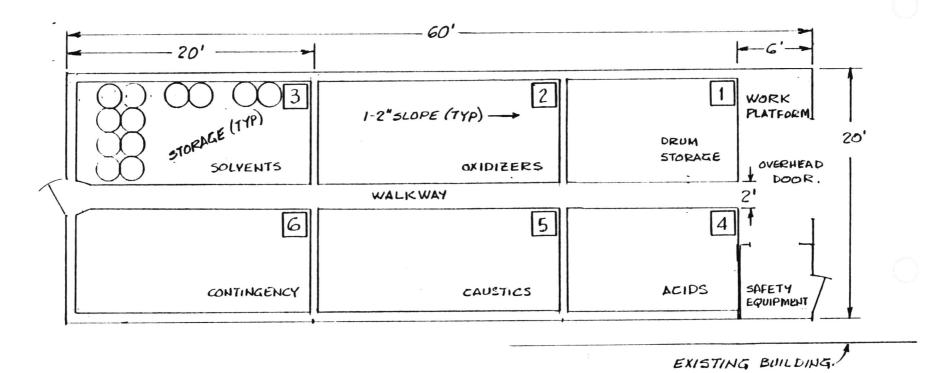
^{*}Even though these are in the same "F" category, they are not to be mixed except at the direction of the senior chemist.

Note - DO NOT INTERMIX "F" CATEGORY WASTES.

FIGURE 1

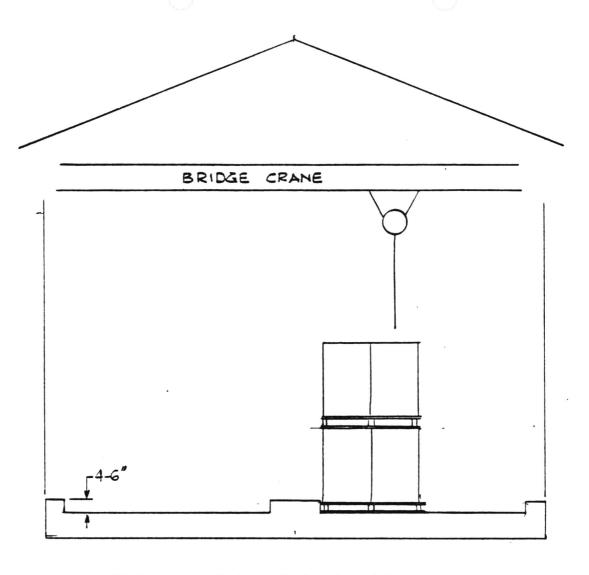
- SERVICE DRIVE ----





PLAN VIEW STORAGE BUILDING

SCALE: 1"=8"



TYPICAL END VIEW ELEVATION

SCALE: 1"=4"



We would like you to see an audio-visual program prepared by the Industrial Training Systems Company. It broadly covers the generation, storing, transporting, treating and disposing of materials defined as hazardous wastes under the regulations. We think it worthwhile to show this to all of you on a one time basis so you can see how the system is suppose to work. The subject will be reviewed at intervals for those who are intimately involved.

We hope you all will get an appreciation of the importance of waste segregation; otherwise, the people in shipping, who manifest the material, might declare a barrel to be all triclene (to the best of their knowledge) while actually it is ½ gasoline. Such confusion would continue on down the line and in fact could cause us serious disposal problems.

As you might envision, misuse of materials can only drive costs up and make the division less competitive. Consider a barrel of solvent. Not only has the price increased dramatically over the years, but the purchaser must now assume 2 or 3 times the initial cost to provide for the ultimate disposal. Society is getting complicated. No longer can we hire just any truck driver to haul waste to whatever dump he sees fit. Also, consider waste. The more you use, the more you must dispose of. And also, do not forget that severe penalties can be imposed on the company if they do not comply.

Do not be overly alarmed by this. We all tend to resist anything that requires a change. Once we get use to strict compliance, it will become more and more routine. The company has spent considerable time, effort and money in preparation for HWM, and probably most of you are already doing what is required. We specifically need the cooperation of all of you in this room.

- ...DO NOT USE ANY CONTAINER THAT LEAKS.
- ...DO NOT SEND UNMARKED CONTAINERS FOR REFILLING.
- ...DO NOT FILL UNMARKED CONTAINERS.
- ...DO NOT USE A "WORK" PAN UNLESS IT IS CLEARLY MARKED.
- ...DO NOT PLACE "USED" CHEMICALS INTO UNMARKED CONTAINERS.
- ...DO BE CERTAIN THAT "USED" CHEMICALS ARE PLACED IN THE PROPER WASTE CONTAINERS.

If you need labels or clarification, contact your supervisor.

Frankly, industry will probably never be 100% successful in the waste segregation effort. We would hope that we can be 99% correct and not 50%.

And now, the slide presentation.

Now that we have painted a horrible picture, let us say that most individuals need to understand and follow only a few simple requirements. We thought it worthwhile, however, to show all of you this slide program so that you will understand what we are trying to comply with.



2.4 Normal/Routine Operations

The slide program should have given you some grasp of the routine of the whole program. The routine in our shop will go something like this. Wastes in the solvent category will be placed in small containers by the generating departments. The small containers will be collected daily by the oiler and the contents transferred to a drum in the drum filling area. Before starting each 55 gallon drum, the Oiler must obtain a Hazardous Waste Label from the Maintenance Foreman, or the Plant Engineer. The label will be filled out completly except for the manifest number before it is supplied to the Oiler. Labels will be numbered sequentially. At the same time the Plant Engineering Department fills in the label, they will enter the information on the Hazardous Waste Log. The Oiler will affix the label to a fresh drum, and proceed with filling. When the drum is filled, he will notify the Plant Engineer's office that drum "XYZ" is filled (so that the log entry can be completed) and then move the closed drum to the Hazardous Waste Storage Building. At the time the drum later comes out of storage and is given to the transporter, the Shipping Department will assign and affix the manifest number plus any required shipping labels not already affixed.

Many wastes, other than flammable solvents, will be handled in much the same manner, except that they will not be accumulated in small containers nor go to the filling area. Normally these will occur at intervals and in larger batches. Another member of Maintenance may be assigned to help clean out a vapor degreaser or a discarded plating bath for instance. In such cases, the properly filled in Hazardous Waste labels must be affixed to the barrels on the site where they are filled and the log maintained accordingly. Again, these functions will be the primary responsibility of the Plant Engineering Department. In these cases, the labeled and closed drums will be moved directly to the storage area.

2.5 Waste Analysis

The regulations are rather explicit on this subject. The Company must have a typical analysis established for each type of waste at the first time it occurs and each time there is reason to expect a change. Most analysis require special equipment, accuracy to parts per million and cost hundreds of dollars -- a good reason to both conserve and to "do things by the book".

2.6 Record Keeping and Reporting

Hazardous Waste Log sheets go to the Safety and Security Office when filled, where they must be available to both State and Federal Administrators. In addition, the Supervisor of Safety and Security must submit an annual report plus an accident report, should one occur, and the Shipping Department must keep a manifest file, with tracers as applicable.

HAZARDOUS WASTE TRAINING

2.7 Security

The Company is required to maintain a complete file concerning fences, doors, guards, locks, inspections, etc. It is most important that the individual worker help us keep our record clean by helping to keep the Hazardous Waste area secure and to report any breaches of security or safety to his/her supervisor. The HWS area and filling area always should be locked when not attended.

2.8 Inspections

A complete inspection schedule and set of inspection log sheets has been submitted as we see our operations fitting the federal regulations. Inspections will be made weekly and monthly by the Plant Engineering Department and/or the Safety and Security Department. Reports must be kept on file in the Safety and Security Office.



3.0 Emergency Procedures and Contingency Plan

3.1 Emergency Coordinator

The Manager of Safety and Security is the Emergency Coordinator. He is responsible for planning for emergencies of all types and magnitudes and for presenting procedures and techniques to an Emergency Advisory Committee composed primarily of himself, the Director of Employee Relations, the Plant Engineer, the Engineering Manager of Support Engineering and the Manufacturing Manager of Assembly and Fabrication.

3.2 Emergency Procedures

This entire topic is covered in the Divisional Safety and Health Plan, under Policy E-2. Topics covered include electrical, gas and water failure, fire, explosion, floods, tornados, and release of hazardous wastes. The most likely danger with Hazardous Wastes in this plant is probably fire.

3.3 Emergency Communications/Phone Numbers and Alarms

In the Safety and Health Manual are listed the phone numbers of the Fire Department, Police, Ambulance, Hospitals, and a dozen others. Internally, special calls, listed on the cover of the Company Telephone Directory are:

- ...Fire 370
- ...First Aid 272
- ... Emergency First Aid 345
- ...Guard House 273
- ... Emergency Maintenance 260
- ...Public Address 8800

Certain lines are on independent power. There is an annunciator in the guard house to monitor the automatic sprinkler system, which covers the plant. As some of you know, we also have a Halon system in the computer room and some $\rm CO_2$ systems in special areas.

3.4 Location, Maintenance, Inspections, and use of Emergency Equipment

There are 5 stretcher stations located along the main corridors and 5 emergency shower-eye stations located in plating, the oil house, the tumbling department and the Met Chem Lab. These are on a HW Inspection schedule as are the 200 fire extinguishers located strategically throughout the plant. In addition, these get a yearly inspection/servicing by an outside contractor.

HAZARDOUS WASTE TRAINING

3.5 Spill Control and Response to Ground Water Contamination Incidents

Liquid spills or leaks will be picked up by "Hazorb" or equivalent universal absorbent pillows. The "Hazorb" pillows will be stored in a closet in the north end of the HWS building. There will be an outside door, facing the guardhouse. These will be handled as per the material involved and placed in fresh containers. In the unlikely event of ground water/soil contamination, the advisory committee will decide on the best method of clean-up. The Manager of Safety and Health must report this event to the DEQ as an accident, should such occur.

3.6 Fires and Explosions

The Davenport Fire Department has agreed to be responsible for coordinating any community emergency groups which may be called in. Report such events to the Guardhouse, which will trigger appropriate decisions, then render such assistance as you can or as you are requested.

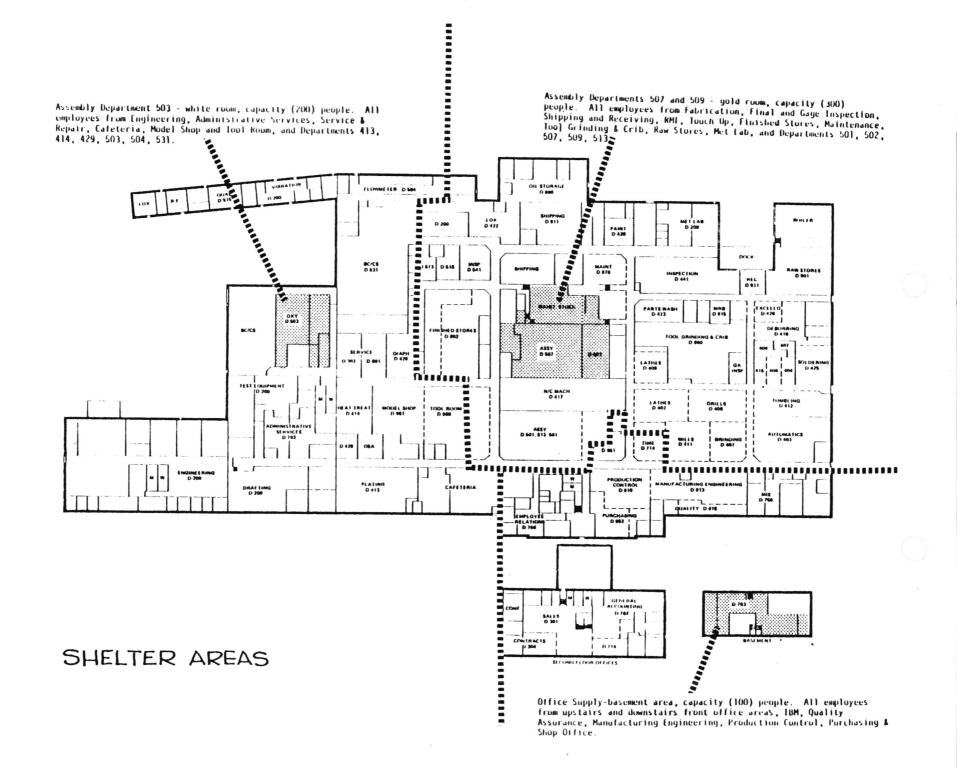
3.7 Power Interruptions or Failure

Generally speaking, the individual foremen will be responsible for disconnecting power circuits within their department to minimize switch gear damage on restarting. Main electrical disconnects are located outside, behind maintenance, for the west end of the plant, and on the mezzanine by Assembly for the east end of the plant and for engineering. Emergency lighting is automatic.

3.8 Severe Weather

The primary thing to remember is the appropriate shelter area as shown in Figure 4.

You will be notified by loudspeaker. Shut off individual machines and equipment and proceed in an orderly manner to your designated area.



HAZARDOUS WASTE TRAINING

4.0 Detailed Instruction

4.1 Hazardous Waste Characteristics

At the mention of hazardous wastes, one might think of things like contagious disease germs or pathogens, or radioactive substances, or molten slag from a blast furnace, etc. While such things may be dangerous, they are not necessarily hazardous wastes in the present context. In dealing with RCRA, we are governed by Title 40, subpart C of the Code of Federal Regulations, which defines hazardous wastes as wastes with a certain degree of ignitability, corrosivity, reactivity or toxicity. Some waste materials could meet two or more of these definitions. We will discuss the four characteristics separately.

Ignitibility

A material which is prone to burn will have a "flash point". In testing, a sample is slowly heated up, with a flame periodically played near the surface. The temperature when the first flash occurs is the flash point. As the temperature is increased, a point will be reached where flame is sustained. This is the fire point. At some particular temperature, the material would catch fire without a flame to kindle it. This is the auto-ignition point. An example would be a unlighted match placed in an oven. A match stick without any head would have a still higher fire point. At any rate, a 1400 flash point is the magic number in the present instance. A waste with a flash point of 1400 or lower is, by definition, an ignitable hazardous waste. We have always tried to use the safest materials that would do the job at this division, but there are limits to everything. Keeping open flames away is particularly important with ignitables.

Corrosivity

The measure of whether a substance is an acid or a caustic is its "pH", which ranges from 0 to 14. Water has a pH of 7. A strong acid has a pH of 1, and a strong caustic has a pH of 13. Either extreme will "eat" certain materials. By definition, a waste is corrosive if it has a pH less than 2 or greater than 12.5, or if it will corrode mild steel beyond a specified rate at a specified temperature. Corrosives must be stored in plastic lined drums.

Reactivity

There are several criteria. Anything that is chemically unstable, that reacts violently with water, or that can be "detonated" (as with dynamite) qualifies. Our heat treat salt contains nitrate, which is one of the components of an explosive and is classed as a reactive. Generally speaking, keep reactives dry and separate from other materials.



Toxicity

This is the measure of what effect a particular substance has on animals. Any one of about 100 compounds or metals found to be present above specified limits that are known to effect laboratory animals is rated as toxic. This includes most of our plating wastes. The thing to do around toxic chemicals is to minimize exposure to the body. This is why we have "no smoking, no eating and no drinking" rules in the plating department and the soldering areas. Wash the hands well after leaving and report any symptons to First Aid.

4.2 Hazardous Wastes

The regulations mention many types of waste which are <u>not</u> considered hazardous, such as household refuse, garbage, trash, sewage, ashes, slag, waste water, etc. Some types listed as hazardous are things we are not involved with, such as the "U" materials (intermediates) and the "P" materials (off spec chemical products).

It has been determined that we do generate recognizable quantities of several wastes classified as "F" materials.

- --F001 Wastes (Coded T for toxic) consist of vapor degreaser solvents. These can be mixed together.
- --F003 Wastes (Coded I for ignitable) consist of several other solvents. We use these materials very little, but provided for them so that they can be used when needed. These can all be mixed together.
- --F005 Wastes (Codes I for ignitable and T for toxic) consist of most of our flammable solvents, and is our most general class of hazardous wastes. These can be all mixed together.
- --F007 Wastes (Codes R for reactive and T for toxic) consist of spent plating baths. These can not be mixed.
- --F008 Wastes, though all in the same EPA group, should not be mixed indiscriminately. Fortunatly these wastes usually occur only when a spent plating bath must be discarded, and it is not that inconvenient to package them separately. These wastes consist of the sludge equivalents of F007. In other words, the liquid portion of a discarded bath should be poured into a barrel with bung, and given a F007 number. The sludge material may be placed in an open ended drum and numbered F008.
- --F009 Wastes consists of spent pickling and stripping baths from plating, and are most often acids. However a few are caustics. Spent acids and caustics should not be mixed. Again, package separately. The plating tank materials will provide a clue as to the type of drum to use. In general, never place acids in unlined drums.

- --F010 consists of heat treat oil sludges.
- --F017 did consist of paint residues. Liquid portions should be discarded with paint thinners, under F005. In the recent past, this dried material was not considered hazardous and could be discarded with the trash.

Just a couple other comments. The small amount of continous dragout and rinse over-flow from each plating bath goes to the sewer, and does not have to be packaged and disposed of as a hazardous waste. However, the Davenport Waste Water Treatment Plant (operating under the EPA) sends people around to sample our outlfow several times a month. It is in our interest to keep plating drag-out down, and drain-back as much as possible. Not only does this avoid penalties, but reduces the amount of chemicals which must be added to the plating baths.

Also, the coding of hazardous wastes was done by the EPA, and is a relative thing. Just because something bears a "toxic" or "ignitable" code, doesn't necessarily mean that it is as dangerous as gunpowder. We have always tried to use the least dangerous materials which would do the job. But do treat all these materials with respect.

4.3 Safety

Rubber aprons, plastic gloves and face shields are available for operator protection. In many instances, common sense will indicate when these should be worn, by both production and maintenance personnel. Concerning hazardous wastes, this protective equipment will be required when cleaning out a tank or container (until the waste has been removed) and wherever there is any danger of splashing the material on the face, or any part of the body. Flush the body area with clean water if accidentally exposed. Consult First Aid if any irritation or other symptoms persist.

Strictly avoid ingestion of the cyanide solution, or the exposure of any open sores. Consult First Aid immediately should these things happen. Food and drink are forbidden in the plating department.

Avoid the breathing of fumes (particularly of vapor degreaser solvents) by the use of exhaust fans, or adequate ventilation.

4.4 Emergencies

Spillage and container leakage are the most common unplanned events, since all these hazardous wastes are stored manually in drums at this Division, and we do not depend on any automatic pumps, pipes, tanks, or waste piles. "Hazorb" or equivalent universal sorbent "pillows" will be provided, and can be used with all of the liquids involved. These pillows are porous polyolefin envelopes filled with amorphous silica and a one pound pillow will absorb up to two gallons of liquid in 30 seconds. Wear protective clothing when cleaning up. The saturated "pillows" are to be placed in open top drums and re-identified. Use plastic liners for F009 chemicals, or any plating chemicals.



The F003 and F005 solvents are all flammable and explosive. The dry powder fire extinguishers can be used with both classes. Alert supervision immediately in the event of any fire, and report any injuries to First Aid. Do not expose to flames, sparks, welding, cutting or similar situations.

All of the above refuse is still hazardous waste and must be dealt with accordingly. An alternate treatment for acids or caustics (F009) which renders them inactive and harmless is to spread sodium bicarbonate on an acid, or citric acid on a caustic until the foaming activity ceases. The material may then be disposed of as trash, but this must be explained in records after the emergency is past.

4.5 Inspections

Periodic inspection of Safety and Emergency Equipment, Security Devices, and the Container filling and Storage Areas are a vital and important part of our HWM Plan. The inspection logs, as well as other logs in the Plan, must be available for review and inspection by the EPA or Iowa DEQ. The items which need to be inspected are detailed in Figures 5 and 6. It is important that you request your supervisor take action on any of these items which are defective.

4.6 Identification and Inventory Control

It is mandatory that all Hazardous Waste storage containers be properly identified. Figure 7 shows the label which we will use. The only item which will not be completed is the "Manifest Document No.____." This will be filled in by Shipping at the time the container is shipped from the facility. Note that (1) each container will have a distinctive identification number, and (2) the material terminology used in the plant is in the left margin of the label. If you notice any discrepancy, notify your supervisor.

Figure 8 is the Hazardous Waste Log which we must maintain for inventory control purposes. Any input you have should be exact and precise.

INSPECTION SCHEDULE

Area	/Equipment	Specific Item	Types of Problems	Frequency of Inspection
	ty and emergency ipment		•	
	Drums (steel) Emergency shower Face shields and e Chemical cartridge vapors and acid	eathing apparatus (SCBA) A) system g system nt and supplies	Out of stock Out of stock Water pressure, leaking, drainage Broken or dirty equipment Out of stock supplies Air quantity in reserve, air delivery system, moisture in tank (cold weather) Needs recharging Power failure Power failure Power failure, speakers Operational Battery failure, lights Items out of stock or inoperative Holes, normal wear and tear	Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly Monthly
Secu	rity devices			
	Facility fence Main gate and lock East gate and lock		Corrosion, damage to chain-link fence or barbed wire Corrosion, damage to chain-link fence or barbed wire Corrosion, damage to chain-link fence or barbed wire	Monthly Monthly Monthly
Cont	ainer filling and	storage areas		
FIGURE 5	Container placement Sealing of contain Labeling of contain Containers Segregation of inc Pallets Base or foundation Curbs Warning signs Access	ners iners compatible wastes	Aisle space, height of stacks Open lids Improper identification, date missing Corrosion, leakage, structural defects Storage of incompatible wastes in same area Damaged (e.g., broken wood, warping, nails missing) Cracks, spalling, uneven settlement, erosion, wet spots Cracks, deterioration Damaged Blocked or restricted	Weekly Weekly Weekly Weekly Weekly Weekly Weekly Weekly

SAFETY AND EMERGENCY EQUIPMENT INSPECTION LOG SHEET

Inspector's Name/Title				
Date of Inspection	_(Month/Day/Year)	Time of Inspection	(Military Time	;)

	STATUS		Date and Nature	
Types of Problems	OK Reject	Obserations	of repairs/remedial action	
Out of stock				
Out of stock			0	
Out of stock				
Out of stock				
Out of stock				
Water pressure, leaking, drainage				
Missing, broken or dirty equipment				
Minimum stock (3)				
Air quantity in reserve, air delivery system, moisture in tank (cold weather) Needs recharging				
	Out of stock Water pressure, leaking, drainage Missing, broken or dirty equipment Minimum stock (3) Air quantity in reserve, air delivery system, moisture in tank (cold weather)	Types of Problems Ok Reject Out of stock Water pressure, leaking, drainage Missing, broken or dirty equipment Minimum stock (3) Air quantity in reserve, air delivery system, moisture in tank (cold weather)	Types of Problems Ok Reject Obserations Out of stock Out of stock Out of stock Out of stock Water pressure, leaking, drainage Missing, broken or dirty equipment Minimum stock (3) Air quantity in reserve, air delivery system, moisture in tank (cold weather)	

SAFETY AND EMERGENCY EQUIPMENT INSPECTION LOG SHEET

Inspector's Name/Title							
Date of Inspection	(Month/Day/Year)	Time of I	Inspection		(Military Time)		
		STATUS			Date and Nature		
Item	Types of Problems	OK	Reject	Obserations	of repairs/remedia action		
Fire alarm system	Power failure						
Telephone system	Power failure						
Public address system	Power failure, speakers						
Generators	Inoperative						
Emergency lighting system	Battery failure, lights						
First Aid equipment and supplies	Items out of stock or inoperative						
Protective clothing, flame resistant, disposable, 2 minimum	Holes, normal wear and team Out of stock	r					
Facility fence	Corrosion, damage to chain link fence or barbed wire						
Main gate and lock	Corrosion, damage to chain link fence or barbed wire; inoperable lock				0		
East gate and lock	Corrosion, damage to chain link fence or barbed wire; inoperable lock						
Container filling and storage areas $\overline{\Omega}$	Corrosion, damage to fence, inoperable locks	> .					
\sim	1	1			i		

CONTAINER FILLING AND STORAGE AREA INSPECTION LOG SHEET

Inspector's Name/Title			
Date of Inspection	_(Month/Day/Year)	Time of Inspection	_(Military Time)

		STATUS		Date and Nature		
Item	Types of Problems	0K	Reject	Obserations	of repairs/remedial action	
Container placement and stacking	Aisle space, height of stacks					
Sealing of containers	Open lids					
Labeling of containers	Improper identification, date missing				\bigcirc	
Containers	Corrosion, leakage, structural defects					
Segregation of Incompatible wastes	Storage of incompatible wastes in same area					
Pallets	Damaged (e.g. broken wood, warping, nails missing)					
Base or foundation	Cracks, spalling, uneven settlement erosion, wet spots					
Curbs	Cracks, deterioration					
Debris and refuse	Aesthetics, possible reaction with leaks					
Warning signs	Damaged, missing					
Fig.						
9						

AREA FOR CONTAINER NO. - THREE DIGITS-

AREA FOR I&LSD TERMINOLOGY

AREA FOR CELL NO. -SINGLE DIGIT -

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY

PROPER D.O.T. SHIPPING NAME	UN	OR NA#
GENERATOR INFORMATION: NAME CLIFTON PRECIS ADDRESS 2734 HICKORY	GROVE P	ZOAD
EPA ID NO. IAD 005268420	EPA WASTE NO.	
START DATE	MANIFEST DOCUMENT NO.	

HANDLE WITH CARE!

CONTAINS HAZARDOUS OR TOXIC WASTES

STYLE WM-6





CHICAGO. IL. BORS

6

(DANGER)



CAUSTIC

OPROPYL ALCOHOL

FLAMMABLE MAY CAUSE EYE BURNS
MAY BE HARMFUL IF SWALLOWED

Do not take internal

CHLOROETHYLEN WARNING!

HARMFIL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN

DO NOT BREATHE WAPOR USE CHRY WITH ADSCURE VEHILLATION. KEEP CONTAINER CLOSES.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFTER HANDAMS. BO NOT TAKE INTERNALLY.
WHISH HEATED TO DECOMPOSITION OR ON CONTACT WITH ACIDS.
EVOLVES HIGHLY TOXIC CHEORNE PLANES.

DO NOT ESPOSE TO STRONG ALK

DH

Jie 75

RESOURCE CONSERVATION
AND RECOVERY ACT (RCRA)
COMPLIANCE EVALUATION INSPECTION
for

Litton-Clifton Precision Instruments and Life Support Division 2734 Hickory Grove Road Davenport, Iowa 52804 EPA I.D. Number IAD005268420

Inspected July 13, 1983

Submitted by:

PEDCo Environmental, Inc. 7331 Madison Avenue Kansas City, Missouri 64114

Submitted for:

A. T. Kearney 699 Prince Street Alexandria, Virginia 22313

Submitted to: Jane Ratcliffe, Regional Project Officer
Joe Galbraith, Task Manager
U.S. Environmental Protection Agency
Region VII
324 East Eleventh Street
Kansas City, Missouri 64106

In response to:

EPA Contract 68-01-6515 Work Assignment No. R07-004 PN 3597-17-41

July 1983

1

INTRODUCTION

On Wednesday, July 13, 1983, Thomas D. Robertson of PEDCo Environmental, Inc. (an EPA contractor) conducted a RCRA compliance evaluation inspection at the Litton-Clifton Precision Instrument and Life Support Division facility located in Davenport, Iowa. Mr. Paul Bohnsack, facility manager of safety and security, and Mr. David Whitting with the Iowa Department of Water, Air and Waste Management participated in the inspection. The purpose of this inspection was to determine whether the facility was in compliance with RCRA interim status requirements and to verify and clarify information contained in its RCRA permit application.

At 10:30 a.m. PEDCo met Mr. Whitting in the facility parking lot and briefly reviewed a past compliance inspection report. The two inspectors presented credentials to the receptionist and requested to meet with Mr. Paul Bohnsack, the facility's designated contact person. After the scope and purpose of the inspection were explained, Mr. Bohnsack took the inspectors to his office where the administrative records were reviewed. A plant tour was then conducted and an exit interview held. Photographs that were taken are attached to this report.

RCRA INSPECTION

Unless noted otherwise, the following compliance-related observations are the only areas of concern:

I. GENERATOR STANDARDS, 40 CFR 262

A. SUBPART A - GENERAL

- 1. The facility had 12 drums in storage labeled as D002 corrosive waste with varying dates (10-82 to 6-83). It appeared that the labels originally indicated F007; however, at the time of inspection they clearly indicated D002. D002 corrosive waste does not appear on the applicant's Part A application nor does it appear on the facility's notification forms. 40 CFR 262.11
- 2. The facility had three plastic carboys labeled as waste acids (see Photo Number 3). This waste was comingled with their nonhazardous solid waste (metal shavings). Mr. Bohnsack could not explain why the carboys were located among the nonhazardous waste nor could he say if the waste was hazardous or not. 40 CFR 262.11

B. SUBPART B - THE MANIFESTS

- 1. The facility is not designating alternate TSD facilities, nor is it instructing transporters to return the waste if it is undeliverable as specified on the manifest document. 40 CFR 262.20
- 2. The facility is using preprinted manifest forms required by the states of Illinois and Minnesota. Each of these states has modified the certification required by 40 CFR 262.21(b).
- 3. The facility differentiates between containerized wastes that are in storage and containerized wastes that are in accumulation (see Photo Number 7). The containers in accumulation are not uniquely labeled, although a stenciled sign above the container indicates its content. The date upon which accumulation began is not marked, and the drums are not kept closed except when waste is added or removed. 40 CFR 262.34

II. INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZ-ARDOUS WASTE TREATMENT STORAGE AND DISPOSAL FACILITIES, 40 CFR 265

A. SUBPART A - GENERAL

- 1. Nine drums (see Photo Number 6) of waste at the facility were stored in an area other than that designated on the Part A application. The drums were all in excellent condition and were stored inside the shipping and receiving area. The dock storage area was not overly crowded. The nine drums included:
 - ° 1 drum of cyanide waste F007 dated 2/4/83
 - ° 5 drums of cyanide waste F007 dated 6/28/83
 - ° 2 drums of solvent waste F001 dated 7/6/83
 - ° 1 drum of solvent waste F005 dated 6/28/83
- The facility had generated one drum of hazardous waste D005 and placed it in the storage area. This type of hazardous (barium EP toxic) waste does not appear on the applicant's Part A application nor does it appear on the notification form. The waste was inside a 110-gallon overpack drum. The label indicates that accumulation began May 17, 1983. It should be noted that less than 90 days had elapsed since May 17, 1983, and it was not necessary to secure an interim waste storage area.

B. SUBPART B - GENERAL FACILITY STANDARDS

- The facility does not have detailed chemical and physical analyses of the waste acids and corrosive materials referred to in Sections I.A.1 and 2. 40 CFR 265.13
- 2. The facility has not implemented the inspection schedule presented in the Part B application nor has it documented that any inspections of the containers and container storage area have been completed. Fire fighting equipment has reportedly been inspected annually by the facility's insurance underwriters; however, documentation was not available at the time of the inspection. Security fences are reportedly inspected by the

- facility's contact ground service (Pinkerton); however, documentation was not available at the time of the inspection. 40 CFR 265.15
- Personnel training records were not available for the emergency coordinator or the designated alternates. 40 CFR 265.16

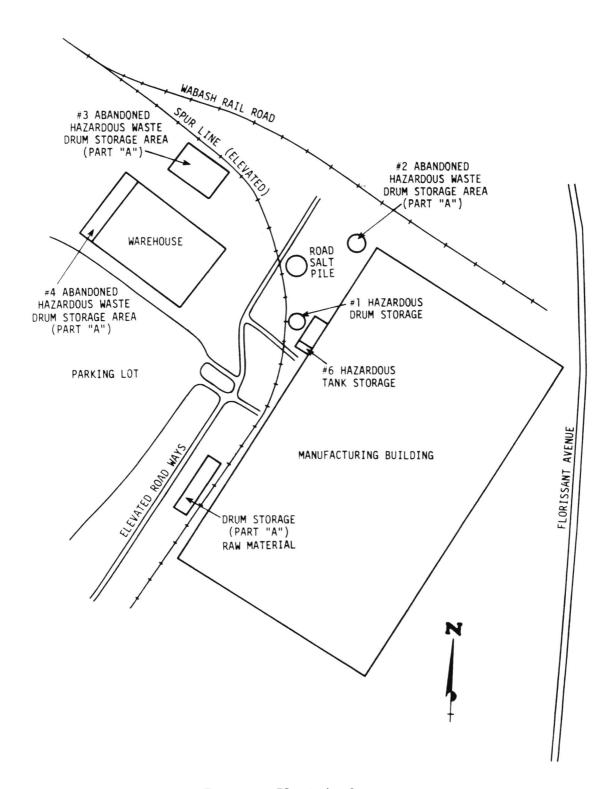
C. SUBPART D - CONTINGENCY PLAN AND EMERGENCY PROCEDURES

- 1. Neither the emergency coordinator nor designated alternates have authority to commit the resources needed to carry out the contingency plan. (See the emergency plan Section G of Part B application for limitations of authority.) Additionally, it was apparent that the alternate emergency coordinators were not thoroughly familiar with all aspects of the facility's operations, especially the location of records. 40 CFR 265.55
- The facility has not formally established a procedure for designating an emergency coordinator to be on call after hours, during holidays, etc. 40 CFR 265.55
- D. SUBPART E MANIFEST SYSTEM, RECORDKEEPING, AND REPORT-ING
 - 1. The operating record does not address the location and quantity of the wastes referred to in Sections I.A.1, I.A.2, II.A.1, or II.A.2. Additionally, the record does not include inspection logs. 40 CFR 265.73

III. PERMIT-RELATED ISSUES

- A. The existing storage area is stained and etched and shows signs of superficial contamination. (See Photos 4 and 5.) The area is not used exclusively for storing hazardous waste. All of the drums visible in Photo Number 4 contain solid wastes, primarily cutting oils being held for recycle. The inspector was unable to determine the cause or content of the stains that are evident in the pictures.
- B. The company's training plan should be expanded to include the emergency coordinators. There is only one person in each of the job descriptions provided in the facility's January 27, 1983, letter to Harrington.
- C. The Part B application should address corrosive waste management activities.

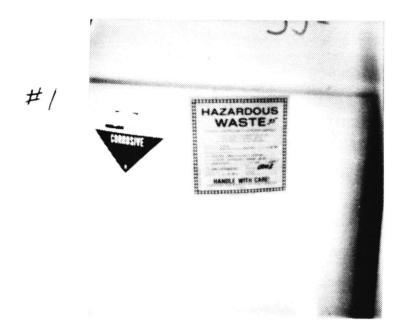
D. The application should specify the minimum secondary aisle space needed to allow proper inspection of each storage cell in the proposed storage building.

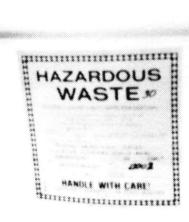


Emmerson Electric Company St. Louis, Missouri EPA ID No. MOD 00629633

LIST OF PHOTOGRAPHS LITTON-CLIFTON PRECISION INSTRUMENTS

Photo Number	Description
1	Shows label of D002 - corrosive waste
2	Shows label of D002 - corrosive waste
3	Shows plastic carbon of waste acid among drums of solid waste being held for recycling
4	Shows storage dock and stain on walls and driveway
5	Shows storage dock and stains, etchings of base
6	Shows drums inside of shipping and receiving area
7	Shows drums in the accumulation area



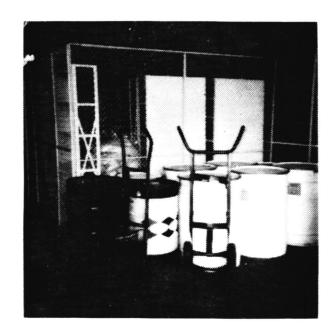


#3



#5





FOOL

U.S. ENVIRONMENTAL PROTECTION AGENCY

RCRA INSPECTION CONFIDENTIALITY NOTICE

Name and Address of Inspector(s) PEDCO ENVIORNMENT FOR 300 2420 Pership 2 2 2/2300 LANGES CHY M36008	Name and Address of Facili CLIFTON PRECISION INSTRUMENTS & LIFE S DIVISION 2734 HICKORY GREVE DAVENPOIZT - 1004	UPPORT ROAD 52804	
Ton FoberTson	Owner, Operator, or Agent in Charge PAUL E, BOHNSACK Title MGR-SAFETY & SECURITY		
	Address SAME.		
Name of Individual to Whom Notice Given Paul 30h NSACK	Title N. G. R Stiery - Oyanian	Date :- 3	

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 U.S.C. 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Resource Conservation and Recovery Act, Section 3007, EPA is required to make inspection data available in response to FOIA requests, unless the Administrator of the Agency determines that the data contains information entitled to confidential treatment.

Any or all of the information collected by EPA during the inspection may be claimed confidential, if it relates to trade secrets or commercial or financial matters that you consider to be confidential. If you make claims of confidentiality, EPA will disclose the information only to the extent, and by the means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential information. Among other things, the regulations require that the EPA notify you in advance of publicly disclosing any information you have claimed and certified confidential.

To logaim information confidential, you must certify that each claimed iten meets all of the following criteria:

- Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
- 2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies by use of legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding).
- The information is not publicly available elsewhere.

Section Regions in

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4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time, you may make claims that some or all of the information is confidential and meets the four criteria listed above.

RCRA	INSPECT	101	CONFID	ENTIAL	ITY	NOTIC	E

Facility

If you are not authorized by your company to make confidentiality claims, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials, to the Owner, Operator, or Agent in Charge of your firm, within two days of this date. That person must return a statement, specifying any information which should receive confidential treatment.

The statement from the Owner, Operator, or Agent in Charge should be addressed to:

Mrs. Louise D. Jacobs
Director, Enforcement Division
United States Environmental Protection Agency
324 E. 11th Street
Kansas City, Missouri 64106

and mailed by registered, return-receipt requested mail within seven (7) calendar days of receipt of this Notice.

Failure by your firm to submit a written request that information be treat ed as confidential, either at the completion of the inspection or by the Owner, Operator, or Agent in charge, within the seven-day period, will be treated by the EPA as a waiver by your company of any claims for confidentiality regarding the inspection data.

tiality regarding the inspection data.
To be completed by the facility official receciving this Notice:
I have received and read this Notice.
Name PAUL E. BOHNSACK
TITLE MGR - SAFETY & SECURITY
Signature Saultonised Date 13 JULY 1983
If there is no one on the premises of the facility who is authorized to mousiness confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the Owner, Operator, or Agent charge of the company. If there is another company official who should a receive this information, please designate below:
Name
Title
Address

<u>(S</u>	Subpart I Section 265,170 - "General Operating Requirements"	Inspection file No:
	2734 Hickory Shove	Reviewer:
	2/37 Hickory Milve	
€PA Genera	tor ID Number: <u>TAD 00526 8 420</u>	Date Reviewed:
	inspection Representative: Paul Bohnsack	-
	Manager of Safety and Youning	Form "i"
Telephone	· · · ·	
The question of scilities	ons contained in this checklist apply to owners and operators of that store containers of hazardous waste, except as Section 265	all hazardous waste .l provides otherwise.
Prt. Regs. O C.F.R. Part:		*.
65 . 171	1. Are all containers in good condition, i.e., not showing s of leakage or corrosion or any other deterioration/deform	igns ation? (ies No
5.171	2. Are containers lined or made of materials compatible with hazardous wastes placed into them so that the container & not react or corrode with the hazardous wastes?	ill <u>(Yes)</u> No
).173(a)	3. Are all containers holding hazardous waste kept closed du storage?	ring Yes No
1.174	4. Are areas where hazardous waste containers are stored insport the owner/operator at least once a week?	pected Yes No
1.15(d) 1.15(b)	5. Is an inspection log maintained? (See question #5 of TSD checklist.)	Yes (In)
5.176	6. Are containers holding ignitable or reactive waste located at least 50 ft. from the facility's property line?	i Yes :::c
).177(a)	7. Are incompatible wastes placed in the same container? (Se Appendix 5 for examples.)	Yes No
5.177(c)	8. Are storage containers holding hazardous wastes which are incompatible with nearby materials stored in containers, to piles, or surface impoundments separated by dikes, berms, wor other devices?	anks, ves No

1.	Are no	there any tanks which are not being used which the facility longer plans to use?	yesno
•	a .	If yes, has all hazardous waste and hazardous waste residue been removed from these tanks, discharge control equipment, and discharge confinement structures?	yesno
65 .1 92 2 .	Are	tanks presently used to treat or store waste?	yesno
		If no, do not complete rest of form. If yes, check tanks.	
	•	Is there evidence that incompatible wastes have been placed tank? Is there evidence of any ruptures, leaks or corrosion? (Use narrative explanations sheet)	in theyesno
3.	Are	there any uncovered tanks?	yesno
	a . b.	If no. do not complete B-E If yes, do they have 2 feet (60cm) freeboard?	vesno
-		or	
	с.	A containment structure? (e.g. dike or trench) or	yesno
	d.	A drainage control system?	yesno
•	e.	A diversion structure? (e.g. standby tank) (NOTE: The structure in c,d or e must have a capacity that equals or exceeds the volume of the top 2 feet (60cm) of the tank.	yesno
4.	. Are	e any of the tanks continuous feed?	yesno
	a.	If yes, is it equipped with a means to stop inflow (e.g. waste feed cutoff or by-pass to a stand-by tank)?	yesno

2.

265.193 Waste Analysis

	5.	Is the tank used to store one waste	exclusively?yes_	no
		If no, what are the different w (Use narrative explanations she	wastes stored in the tank?	
		done on these different wastes?		no
	•	(1) If no, does he have writte similar storage or treatme		no
		a. Are there records available of operating record?		no
2 65 .1 94	Inst	ections:		
	6.	Does the owner/operator inspect the	following at least daily?yes_	no
		a. Discharge control equipment (e. and/or drainage systems)?	g. waste feed cut-off, by passyes_	no
		o. Monitoring equipment (e.g.\pres	sure and temperature gages)?yes_	no
		Level of waste in each uncovere	d tank?yes	nc
	7.	Does the owner/operator inspect the	following at least weekly?ves_	_no
		 Construction materials of tanks Construction materials of and a confinement structures for eros 	rea surrounding discharge	
	8.	s a written schedule of these insp	ections kept at the facility?yes_	_no
	9.	oes the facility maintain a record	of the closure plan on site?yes	no
	10.	Are ignitable or reactive wastes p	laced in tanks?yes	_no
			ered or mixed before or immediately it no longer meets the definition ofyes_	_no
		Or		
		b. Is the waste protected from so	urces of ignition or reaction?yes	_no

page 2 of 3

3.					
	(1	If yes, use narrative explanations sheet to describe separation and confinement procedures			
	(2) If no, use narrative explanations sheet to describe sources of ignition or reaction			
		or			
	c. I	s the tank used solely for emergencies?yesno			
	If a	incompatible wastes placed in the same tank?			
	wast	te, was that tank washed:			
	ā.	If yes, describe washing procedures (Use narrative explanations sheet)			
		Describe how it is possible for incompatible waste to be placed in the same tank. (Use narrative explanations sheet)			

Sub	part
•	K

SURFACE IMPOUNDMENTS CHECKLIST

	1.	Are there any surface impoundments which are not being used which the facility does not plan to use in the future?	
		a. If yes, has all hazardous waste and hazardous waste residue been removed from the impoundment?	
	2.	Are impoundments presently used to treat or store waste?yesno	
		a. If no, do not complete rest of form.b. If yes, check impoundments.	
26 5. 2 22		Does the impoundment appear to maintain at least 2 feet (60 cm) of freeboard?yesno	
	4.	Is there evidence of overtopping of the dike?yesno	
2 65 .2 23	5.	Does the impoundment have a containment system?yesno	
		a. Does the earthen dike have a protective cover (e.g. grass, shale, rock) to minimize wind and water erosion?	
	6.	What wastes are treated in the impoundment? (Use narrative explanations shee	•]
2 65 .2 25	7.	Are waste analyses and trial tests conducted on these wastes?yesno	
		a. If not, does the owner/operator have written documented information on similar treatment of similar wastes?yesno	
	8.	Is this information retained in the operating record?yesno	
	9.,	Is the impoundment inspected dally to check freeboard level?yesnc	
	10.	Is the impoundment, dikes and vegetation surrounding the dike inspected weekly to detect leaks, deterioration or failures?yesno	

11.	Does	s the facility maintain a record of the closure plan on e? (Effective May 19, 1981)	yes	_nc
12.	Are	ignitable or reactive wastes placed in the impoundment?	yes	_n c
		If no, do not complete b and c. If yes, are they treated, rendered or mixed before or immediately after placement in the impoundment so it no longer meets the definition of ignitable or reaches.	tive?	
			yes	_nc
•	с.	Is the impoundment used solely for emergencies?	yes	_nc
13.	Are	incompatible wastes placed in the impoundment?	yes	nc

L

•	NOT	E: Waste piles may also be managed as a landfill.
265.2 51	1.	Is the pile containing hazardous waste protected from wind?yesno
265 .2 52	2.	Is a representative sample of waste from each incoming shipment analyzed before the waste is added to the pile to determine the compatibility of the wastes?
	3.	Does the analysis include a visual comparison of color and texture?
265.253	4.	Is the leachate or run-off from the pile considered a hazardous waste? (Effective November 19, 1981)
		a. If yes, is the pile managed with the following?
		(1) An impermeable base compatible with the waste?yesno (2) Run on diversion?yesno (3) Leachate and run-off collection?yesno
		or
		b. 1. Is the pile protected from precipitation and run-on by some other means?vesno
265.256	5.	Are ignitable or reactive wastes placed in the pile?vesno
		a. If yes, does the addition of the waste result in the waste or mixture no longer meeting the definition?yesno (Use narrative explanation sheet to describe procedure)
		or .
		b. Is the waste protected from sources of ignition or reaction?yesno
		. (1) If yes, use narrative explanations sheet to describe separation and confinement procedures.
		(2) If no, use narrative explanations sheet to describe sources of ignition or reaction.
	6.	Is the pile separated from other sources of reaction by a dike, berm or wall?
	7.	Is there evidence of fire, explosion, gaseous emissions, leaching or other discharge? (Use narrative explanation sheet)
		page 1 of 1

							\							
65.2 72	1.	Is r (Eff	run-or fectiv	n divert ve May l	ed awa 9, 198	y fro m t	the land	l treatm	ment fa	cility			esno	
	2.	Is t	run-oi fecti	ff from ve May 1	the la 9, 198	ind trea t	iment fa	cility	colle	cted?			esno	
	3.	Is 1	the r	unoff ar	alyzed	to see	if it i	s a haz	zardou	s waste?	?		esno	
		a.	If the	he run-d narrati	ff is	consider lanation	red haza	rdous,	how i	s it har	ndled?			
•		b.	If i	t is not	a haz urface	ardous v waters?	aste,	is it ₋ di	ischar	ged thro	ough a		esno	
			(1)	If yes	, list	NPDES P	rmit No							
·	4.	Wha	t haz	ardous v	vastes	are tre	ated at	the lar	nd tre	atment 1	facilit	y?		
		Subi	part	D Liste	d Waste	es		Ch	naracte	eristic	Wastes	(EP To	exicity)	
265.2 73		Α.	For of t	those li	isted v	wastes, which	vere and	alyses o	done t waste	o detem to be l	mine th	e conc	entration:	5
			(1)	If yes	, what	are the	se conce	entratio	ons?	(Use na	rrative	expla	nation sh	eet
		В.		those c		eristic	Wastes	(EP) To:	xicity	, what a	are the	conce	ntrations	
•				Conc	entrat [.]	ion (Mg/	1)(1			W	aste			
	Bar Cac Chi Lea Mer Se Si Enc Lii Mer To 2,	rcury leniu lver drin ndane thoxy xaphe 4 D	im im im im											

265.2 76	5.	Are	e food chain crops grown?	yesno
•		a .	If yes, what are the vegetation. Soil Concentration (mg/l) Concentration (mg/l) Concentration (mg/l)	oil and
	CA:	enic Imium Id Icury	n .	
	6.	Did	the facility notify the RA that he is growing food chain crop	s? yesno
	7.	Is	the following information kept at the facility?	yesno
		b. c. d.	Soil characteristics? Sample selection criteria? Sample size determination? Analytical methods used?	yes no
	8.	Doe	es the facility treat waste that contains cadmium?	yesnc
		a.	If no, do not fill out b&c	
		b.	If yes, was the pH of the soil and waste mixture 6.5 or grea at the time of each waste application?	ter ves no
			(1) If the pH was less than 6.5, did the waste contain cad concentrations of 2mg/Kg or less?	dmium yesno
		с.	Is the annual application rate of cadmium less than 0.5 Kg/haper hectare) for the following: tobacco, leafy vegetables, or grown for human consumption	(Kilograms root crops yesno
-			(1) For all other food chain crops, is the annual cadmium application rate less than 2.0 Kg/ha (Until 6/30/84)	yesno
2 65.278	9.	Is	an unsaturated zone monitoring plan kept at the facility?	yesno

	10.	Does the plan include:
:		a. Soil monitoring b. Soil pore water monitoring c. Sample depths below waste incorporation d. Number of samples to be taken e. Frequency and time of sampling f. Analysis of samples yesno yesno yesno
265.27 9	11.	Are records kept at the facility of a. Application dates b. Application rates c. Quantities d. Waste location yesno yesno yesno
265.2 80	12.	Is a copy of the closure/post-closure plan kept at the facility?yesno (Effective May 19, 981)
265.281	13.	Are ignitable or reactive wastes placed in the facility? a. If yes, are the wastes treated, rendered or mixed before or immediately after placement in the landfill so it is no longer reactive or ignitable yes no
		b. Describe or attach a copy of treatment.
	14.	Are incompatible wastes placed in the facility? a. Are the incompatible waste placed in different locations in the facility?

N

· 265.3 02	1.	Is run-on diverted from the landfill? (Effective November 19, 1981)	yes	_nc
	2.	Is run-off from the landfill collected? (Effective November 19, 1981)	yes	_nc
		a. Is this waste analyzed to determine if it is a hazardous waste	? yes	_no
		(1) If it is a hazardous waste, how is it managed? (Use narrative explanations sheet)		
-		-(2) Is the collected run-off discharged through a point source to surface waters?	yes	_no
		(a) If yes, list NPDES Permit Number		_
	3.	Is the landfill managed so that wind dispersal is controlled? (Note blowing debris)	yes	_no
	4.	Is the following information maintained in the operating record?	yes	_no
	5.	Are reactive or ignitable wastes placed in the landfill?	yes	_no
		a. If yes, is it treated, rendered or mixed before or immediately after placement in the landfill so it is no longer reactive or ignitable?	yes	_no
		b. Describe treatment, etd, or attach a copy of treatment.		
	6.	Are incompatible wastes placed in the same landfill?	yes	_no
	7.	Are bulk or non-containerized liquid wastes or wastes containing free liquids placed in the landfill? (Effective November 19, 1981)		
-		a. If yes, does the landfill have (1) A chemically and physically resistant liner? (2) Functioning leachate collection and removal system? or	yes yes yes	no no no
		b. 1. Is the liquid waste treated chemically or physically so that free liquids are no longer present? (Effective November 19, 1981)	_yes	_no

2 65 .3 14	8.	Are containers holding liquid wastes placed in the landfill?	yes_	_no
		a. If yes, is the container designed to hold liquids for a use other than storage? (eg battery, capacitor) (Effective November 19, 1981)	yes	no
2 65. 3 15	9.	Are empty containers placed in the landfill?	yes	no
		a. If yes, are they reduced in volume (eg shredded, crushed)? (Effective November 19, 1981)	ves	nc
	1 0.	Is there evidence of site instability? (e.g. erosion, settling)?_ (Use narrative explanations sheet)	yes	_nc
	11.	Is there evidence of ponding of water on-site? (Use narrative explanation sheet)	yes	_nc
	12.	Is there any indication of improper or inadequate drainage? (Use narrative explanations sheet)	yes	_nc
265.3 10	13.	Does the facility maintain closure and post-closure plans?	yes	_no

. 0		INCINERATORS CHECKLIST
. 2 65 .3 43	1.	Is the incinerator operating at steady state conditions (temperature and air flow) before adding hazardous waste?yesno
2 65.345	2.	Is a waste analysis documented on the operating record that includes:
-		a. Heating value b. Halogen content c. Sulfur content d. Concentration of lead e. Concentration of mercury yes no yes no yes no yes no
		(Note: D&E not required if facility has written documented data that show the elements are not present.
2 65. 3 47	3.	Does the owner/operator monitor the following when incinerating hazardous waste?
		a. At least every 15 minutes, existing instruments which relate to combustion and emission control including:
		(1) Waste feed
		b. Stack plume (emissions) at least hourly for:
		(1) Color (normal)yesnoyesno
		c. Incinerator and associated equipment at least daily including:
		(1) Pumps, valves, conveyors, pipes for leaks, spills, and fugitive emissions (Use narrative explanations sheet)
265.351	4.	Is a closure plan maintained at the facility?yesno (Effective May 19, 1981)

: Subpart

page 1 of 1

2 65 .3 73	1. Is	the process a non-continuous (batch) process?	yes	_no
•	a.	If no, is the process operating at steady state conditions (including temperature) before adding hazardous waste?	yes	_no
2 65 . 375	b.	Is a waste analysis documented in the operating record that includes		
•	•	 Heating value Halogen content Sulfur content Concentration of lead Concentration of mercury 	yes yes yes yes	_no _no _no _no
	NOTE:	4&5 not required if facility has written documented data that elements are not present)	show the	
265.3 77	2. Doe	es the owner/operator monitor the following when thermally trestandous wastes?	-	_no
	a.	At least every 15 minutes, existing instruments which relate to temperature and emission control:		
		1. Waste feed 2. Auxiliary fuel feed 3. Treatment process temperature 4. Relevant process flow 5. Relevant level controls	yes	no no no no no no
	b.	Stack plume (emissions) at least hourly:		
•		1. Color (normal) 2. Opacity		no
	С.	Thermal treatment process equipment at least daily		
		 Pumps, valves, conveyors, pipes, etc - for leaks, spills and fugitive emissions? Emergency shutdown controls? System alarms 	yes	no no no

NOTE: Applies to thermal treatment of hazardous waste in devices other than incinerators.

P

2 65 .3 81	3.	Is a closure plan maintained at t (Effective May 19, 1981)	he facility?	yesno
2 65 .3 82	4.	Is there evidence of any open bur (Use marrative explanations sheet	ning of hazardous waste?)	yesno
	5.	Is open burning or detonation of	waste explosives conducted?	yesno
		a. If yes, is the detonation per the following table?	formed in accordance with	yesno
		Pounds of waste explosives or propellants	Minimum distance from or detonation to the p	
		0-100 101-1,000 1,001-10,000 10,001-30,000	204m(670 ft) 380m(1,250 ft 530m(1,730 ft 690m(2,260 ft)

CHEMICAL, PHYSICAL & BIOLOGICAL TREATMENT CHECKLIST

Q

NOTE: Applies to treatment in other than tanks, surface impoundments, and land treatment facilities.

2 65.401	1.	Check treatment process and equipment:	
		a. Are there any leaks, corrosion or other failures evident?	
	2.	Is the process a continous feed system?yesno	
-		a. If yes, is it equipped with a means to stop waste inflow (e.g. waste feed cut-off system or by-pass)?yesno	
265.4 02	3.	Is waste analysis information maintained in the operating record?yesno	
-	4.	If a hazardous waste is received which is substantially different from any hazardous waste previously treated at the facility, are the following obtained?	
		 a. Waste analyses and trial treatment tests (eg bench scale)?yesno b. Written documented information on similar treatment of similar waste?yesno 	
265.4 03	5.	Does the owner/operator inspect the following, where present?yesno	
		 a. At least daily. l. Discharge control and safety equipment (eg waste feed cut-off, by-pass, drainage or pressure relief systems)?	
		 Data gathered from monitoring equipment (eg pressure and temperature gauges)? yesno	
		 At least weekly. Construction materials of treatment process or equipment to detect erosion or obvious signs of leakage? 	
-	6.	Does the facility maintain a closure plan? (Effective May 19, 1981) yesno	
265.405	7.	Are ignitable or reactive wastes placed in the treatment process?	
		a. If yes, is the waste treated, rendered or mixed before or immediately after being placed in the treatment process so it no longer meets the definition of ignitable or reactive? yes no	
*		Describe or attach a copy of the treatment.	1 of 1
		page	- 01 1

EPA IDENTIFICATION NUMBER

RCRA INSPECTION REPORT - INTERIM STATUS STANDARDS

I. General Information:

(A)	Facili	ty Name: 1: How - C	118 Ton Gecision boutuments 5	Lik sysport Owen
(B)	Street	: 2734 Hickor	y Grove Road	
(C)	City:	DAVERPORT	(D) State: <u>IA</u>	(E) Zip Code: 52804
(F)	Phone:	3 19-383-60	000 (G) County:	
(H)	Operato	r: SAME	- PAUL E Boh	NSACK - managen a
(I)	Street:		Sax	ity and training
(J)	City: _		(K) State:	(L) Zip Code:
(M)	Phone:	S (2000)	(N) County:	
	:			
(0)	Owner:	& Estevand	Fisher - V. P. General	Munager
(P)	Street:	CT.	.5.1	
(Q)	City: _		(R) State:	(S) Zip Code:
(T)	Phone:		(U) County:	
	, 'Z,		Federal Munici	pal Y Private
(V)	Type of	Ownership:	State County	'
(W)	Date of	Inspection: <u>7-/3-</u>	83 (Q) Time of Inspection (Fro	m) 10:30 (To) 4:30
(X)	Weather	Conditions: <u>767</u>	**************************************	
		-		

Paul E Bohnsack Manager Selving Sum voicing 316.38. Dave Whiting Dept M.A. W. M. R. 6 Tom BioSertion Red 0 S/6-337						-
Manager Stery St	(Z)	Inspection Participants	Tit	le		Telephone
Dore Witting Dept William Ra 6 Storage Form Site Activity		PAUL E BOHNSACK	MAN	Mer Sefety-S	security & university	319.383-62
II. Description of Site Activity (A) Senerator (Form 2) (B) Transporter (Form 3) (C) Chemical, Physical and Biological Treatment (Form 4) (B) Storage (Form 5) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 1) (I) Comments: AirCraft Instancemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A		Dave whitting			,	,
II. Description of Site Activity (A) Senerator (Form 2) (B) Transporter (Form 3) (C) Chemical, Physical and Biological Treatment (Form 4) (B) Storage (Form 5) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 1) (I) Comments: Aiccord Trajumation Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number		Tom RoberTson				8/4-237-04
II. Description of Site Activity (A)						
II. Description of Site Activity (A)					•	
(A) Senerator (Form 2) (B) Transporter (Form 3) (C) Chemical, Physical and Biological Treatment (Form 4) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 1) (I) Comments: All Craft Instrumentation Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. (J) Has this facility Submitted a Part A			sminting of	F	•	
(C) Chemical, Physical and Biological Treatment (Form 4) (D) Storage (Form 5) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 7) (1) Comments: All Craft Instrumentation Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes		<u>11. Des</u>	cription of	Site Activ	ity .	
(C) Chemical, Physical and Biological Treatment (Form 4) (D) Storage (Form 5) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 7) (1) Comments: AirCraft Instrumentation Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes		X .		•		
and Biological Treatment (Form 4) (E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 7) (1) Comments:				(B)	Transporter	(Form 3)
(E) Landfill (Form 6) (F) Incineration (Form 7) (G) Land Treatment (Form 4) (H) Thermal Treatment (Form 7) (1) Comments:	(C)	Chemical, Physical and Biological Treatment	(Form 4)	(n)	X Stanzas /5	- 5)
(G) Land Treatment (Form 4) (H) Thermal Treatment (Form 4) (1) Comments: All Craft Instrumentation Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes	(F)		(1.01			•
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A						•
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A	(6)	Land Treatment (Form 4)		. (H)	_ Thermal Trea	tment (Form 7)
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A	(1)	Comments: All COATT Two Times	West En			
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A	, ,		acy, acy		•	
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A						
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A		·				
Supplemental forms (Listed in Parathesis) must be completed for each activity inspected. Attach all Supplemental forms to this report. Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A						
Yes No Not See Rem Inspected Number (J) Has this facility Submitted a Part A			Parathecis)	must be com	nloted for and	
Inspected Number Submitted a Part A		inspected. Attach all Suppleme	ental forms	to this rep	ort.	n activity
Inspected Number Submitted a Part A						·
(J) Has this facility Submitted a Part A			Yes	No		See Remark
Submitted a Part A	(J)	Has this facility				Nomber
Termite Apprileaction:		Submitted a Part A				
		TELLITE APPLICATION:		-		•

RCRA COMPLIANCE INSPECTION REPORT GENERATORS CHECKLIST

	Sec	tion	A - EPA	Identification No.	
	1.	Doe	s Genera	tor have EPA I.D. No.?	Yes No
		à.	If yes,	EPA I.D. No. IADO05268420	
262.21	Sec	tion	B - Man	nifest	•
	1.	Doe	s genera	tor ship waste off-site?	
		a.	If no,	do not fill out Sections B and D.	
-		b.		<pre>identify primary off-site facility(s) Use marra tions sheet.)</pre>	tive
~	2.	Doe	s genera	tor use Manifest?	<u>X</u> Yes No
261.5		ā.	1. If	is generator a small quantity generator? yes, does generator indicate this when sending te to a T/S/D facility	Yes No NA Yes No NA
		b.	If yes	, does manifest include the following information:	
			1. Ma	nifest Document No.	<u>X</u> Yes No
			2. Ge	nerators Name, Mailing Address, Telephone No.	
			3. Ge	nerator EPA I.D. No.	<u>X</u> Yes No
			4. Tr	ansporter(s) Name and EPA I.D. No.	
			5. a. b. c.	Facility Name, Address and & EPA I.D. No. Alternate Facility Name, Address and EPA ID No. Instructions to return to generator if undeliverable?	
			qu	ste information required by DOT - Shipping name, antity, (weight, or vol.) containers (type and mber.)	Yes <u></u> No
	(ergency Information (optional) pecial handling instructions, phone no.)	<u> </u>
Dynd Phane	e Pari	in Thin!		Previously ated in State report	
monch 27; 198	1				page 1 Of 4

moth	led by state of
	Yes No
d cribed, n pro- ding to rtment	
sts?	X Yes No
ts? (ie S	XYes No Title
ure and rter? Name <u>Miles</u>	YesNo Title
igned	XYes No
ity owner/	<u>X</u> Yes No <u>X</u> Yes No
Subpart D	<u> </u>
	F007, 7008,
it hazardou ctivity,	
to one in 5	Truge m. Th

		•	(8)	Is the f	ollowing ce form?	rtificatio	on on each		_ Yes _	χ No
				material packaged per cond the appl	, marked an lition for t	rly class d labeled ransporta lations o	ified, describ and are in pr tion according f the Departme	to nt	, , J	
			(9)	Does Ger	erator re ta	in copies	of Manifests?	_	Yes_	No
	Ify	es,	comple	te a thro	ough e.					
ckind	ance and	a .	(1) (2)	Did gener Who signe	ator sign and defined the second second second and second	nd date a ator?	ll manifests? Name <u>Vacces</u>	_	XYes Title	No
And Land	of the		, ,	date of a	cceptance f	rom initi	ten signature al transporter sporter? Name	·?	✓ Yes Title ✓	No
Many Com with		с.		•	retain one and transpor	, •	manifest signe	ed	_XYes _	No
٠ ٢٠		d.			ppies of man uture and da		lude facility eptance?	owner/	X Yes _	No
		e.	Does	generator	retain cop	ies for 3	years?	_	χ Yes _	No
	Sect	tion	C - Ha	zardous V	laste Determ	nination				
262.12	1.			rator gene lazardous		waste(s)	listed in Subp	_	Yes_	
,			If ye (incl	es, list (lude EPA l	vastes and o lazardous Wa	uantities ste No.)		3, FOOS, F	F007 7	2008,
e Photo's #'s 1 \$ 2	2.	Does char EP t	gener acteri oxicit	istics?	erate solid (corrosovit)	waste(s) , ignitab	that exhibit hility, reactive	, i + v	Yes _	No
, ,			If yes	s, list wa ude EPA Ha	estes and qu ezardous Was	uantities ste No.)	Part A"		age ,	nat on
		b.	Does o	generator olying kn	determine o	characteri processes?	stics by testi	ing or	wholse	
							enerator use t (or Equivalent		Yes _	_ No a
•			a.		ivalent test lent methods		used, attach o	copy of		

	3.	Are there any other solid wastes generated by generators?	X Yes No
		a. If yes, did generator test all wastes to determine non-hazardous characteristics?	<u> </u>
sephoto \$	3	 If no, list wastes and quantities deemed non-hazardo or processes from which non-hazardous waste was prod (Use additional sheet if necessary.) 	ous duced?
		by Kniwledge of lucin and Materials WASTE ACID.	s in Storage
		not listed as layerlans comingled with no	- hazardan
		wate,	
	Sec	tion D - Pre-Transport Requirements	
	1.	Does Generator package waste in accordance with 49 CFR 173 178, and 179? (DOT requirements)	
265.174	2.	 a. Are containers to be shipped leaking or corroding? b. Use sheet to describe containers and condition. c. Is there evidence of heat generation from incompatible 	YesX No
		wastes in the containers?	Yes 📈 No
262.32	3.	Does the generator use DOT labeling requirements in accordance with 49 CFR 172?	Yes No
	4.	Does the generator mark each package in accordance with 49 CFR 172?	<u>×</u> Yes No
	5.	Is each container of 110 gallons or less marked with the following label?	Yes No
		Label saying: <u>HAZARDOUS WASTE</u> - Federal Law Prohibits Improper Disposal. If found, contact the nearest policy or public safety authority or the U.S. Environmental Pro- tection Agency.	
		Generator's Name and Address	
		Manifest Document Number	
2 62 .3 3	6.	Does generator have placards to offer to transporters?	Yes 🔬 No
262.34	7.	Accumulation Time	
		a. Are containers used to temporarily store waste before transport?	X Yes No

Accident from the property of the property of

	Also, fill out rest of No. 7 (Accum. Time) YesNo
	 b. 1. Does generator inspect containers for leakage or corrosion? (265.174 - inspections) 2. If yes, with what frequency?
	c. Does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) from the facility's property line? (265.176 - Special Requirements for Ignitable or Reactive wastes)
N	OTE: If tanks used, fill out checklist for tanks.
	d. Are the containers labeled and marked in accordance with Section D 3, 4, & 5 of this form? YesNo
N	OTE: If generator accumulates waste on-site, fill out checklist for General Facilities, Section B - Preparedness and Prevention, Section C - Contingency Plan and Emergency Procedures
	e. Does generator comply with requirements for personnel training? (Attach checklist for 265.16 - Personnel Training)YesNo
8.	Describe storage area. Use photos and narrative explanation sheet.
52.40 <u>Sec</u>	tion E - Recordkeeping and Records
	1. Does gnerator keep the following reports for 3 years?
	a. Manifests and signed copies from designated facilities? b. Annual reports c. Exception Reports none name d. Test results X YesNo YesNo YesNo
	2. Where are records kept (at facility or elsewhere)? 3. Who is in charge of keeping the records? Name full Bowsack Title
Sec	tion F - Special Conditions
62.50	1. Has generator received from or transported to a foreign source any hazardous waste? a. If yes, has he filed a notice with the Regional Administrator? b. Is this waste manifested and signed by Foreign consignee? c. If generator transported wastes out of the country, has he received confirmation of delivered shipment? YesNo

RCRA COMPLIANCE INSPECTION REPORT FACILITIES CHECKLIST

Sec	tion A - General Facility Standards				
1.	Does facility have EPA Identification No.?	X	Yes		No
	A. If yes, EPA I.D. No. <u>IADO05268420</u> If no, explain	!			
2.	Has facility received hazardous waste from a foreign source?		Yes	<u>X</u>	Νo
	A. If yes, has he filed a notice with the Reg. Admin.		Yes		No
Was	ite Analysis				
3.	Does facility maintain a copy of the waste analysis plan at the facility?	X	Yes		No
	A. If yes, does it include	1			
	(1) Parameters for which each waste will be analyzed?	1	Yes		No
	(2) Test methods used to test for these parameters?	+	Yes		No
	(3) Sampling method used to obtain sample?	7	Yes		No
	(4) Frequency with which the initial analysis will be reviewed or repeated?		Yes		No
	(5) (for off-site facilities) Waste analyses that general have agreed to supply?	ators	Yes		Νc
	(6) (for off-site facilities) Procedures which are used inspect and analyze each movement of hazardous waste including:	to e	,	NF	7
	a. Procedures to be used to determine the identity				

		-	b.	Sampling metho sample of the	d to be use waste to be	ed to obtain repr e identified?	resentative —	_ Yes _	NO NO
265.14	4.	Doe	s the fa	cility provide	adequate so	ecurity through			
		Α.	24-hour monitor	surveillance sing or guards)	ystem? (e.	g. television		Yes _	No
			<u>OR</u>						
		В.	(e.)	g. fence or fence or fence	ce and cli	r around facility ff)?		Yes _	No
<i>(</i>			(2) Mean	ns to control e	ntry through	h entrances			
×.			enti	g. attendant, to rance, controllo cribe	elevision m ed roadw ay	nonitors, locked access)?		Yes _	_ No
ř	Gen	eral	Inspect	ion Requirements	s		· · · · · · · · · · · · · · · · · · ·		
2 65.1 5 (b)		Doe	s the owr		-	ritten schedule a	it the		
-1			a. Mon	itoring equipmen	nt?			Yes _	<u>X</u> No
W S			b. Safe	ety and emergend	cy equipmen	tile extrigues com it? fist ADE - 51 your recode by gaineds - finkertor not part of by sec	not not at lay of	Yes _	
The transfer of the second	\		c. Secu	urity devices?	Fences :	not part of hy sec	reda_	Yes	No
inspection revolts			d. Oper	rating and struc	ctural equi	pment?	_	Yes _	No
_			e. Type	es of problems o	of equipmen	t?			
			1.	malfunction				Yes _	No
			2.	operator error				Yes	No
			3.	discharges			- Channe	Yes	No

· ∠65.15 (d)	6. Doe	es the owner/operator maintain an inspection log?	Yes _/	X No
in 13	Α.	If yes, does it include:		
int B		(1) Date and time of inspection?	Yes	_ No
Jo of To or		(2) Name of inspector?	Yes	_ No
1 graphy of the total of		(3) Notation of observations?	Yes	_ No
see it is		(4) Date and nature of repairs or remedial action?	Yes	No
	В.	Are there any malfunctions or other deficiencies not corrected? (Use narrative explanation sheet).	Yes	No .
65.16	Personn	nel Training		
<i>(</i>	Rec	es the owner/operator maintain Personnel Training cords at the facility? Tong are they kept? 3/ear minimum		No
nal has	- A.	If yes, do they include: there is only I person in each got	¿ IASSitication	
Mot scheding	12/10/23	(1) Job title and written job description of each position?	X Yes	_ No
endicate constitute of	\rightarrow	(2) Description of type and amount of training?	Yes	√ No
Steer		(3) Records of training given to facility personnel?	<u> </u>	_ No
(65.17)	Require	ments for Ignitable, Reactive or Incompatible Waste		
(٤)	8. Doe	es facility handle ignitable or reactive wastes?	Yes _	_ No
- >	Α. <	If yes, is waste separated and confined from sources of ignit on or reaction, (open flames, smoking, cutting and welling, hot surfaces, frictional heat) sparks (statelectrical) or mechanical), spontaneous ignition (e.g. flames, producing chemical reactions) and radiant heat?	rom	Electric switch
omengeny are	handy	 If yes, use narrative explanations sheet to describe separation and confinement procedures. If no, use narrative explanation sheet to describe of ignition or reaction. 	•	1 NO
phr.	A Meinster	, are not thousand families windrecord and all argent of dailing	operation	page 3 of

		B. Are smoking and open flame confined to specifically designated locations?	Yes No
		C. Are "No Smoking" signs posted in hazardous areas?	Yes No
Method (b)	9.	Check containers	7
ward were	_	A. Are containers leaking or corroding?	Yes <u>X</u> No
Why or		B. Is there evidence of heat generation from incompatible wastes? (Use narrative explanations sheet to describe condition	Yes X No
265.31	Sec	tion B - Preparedness and Prevention	,
See Photo	1.	Is there evidence of fire, explosion or contamination of the environment?	X/es No
7 45		If yes, use narrative explanations sheet to explain.	
265.32	2.	Is the facility equipped with	
(A. Internal communication or alarm system?	Yes No
		(1) Is it easily accessible in case of emergency?	Yes No
		B. Telephone or two-way radio to call emergency response personnel?	
		C. Portable fire extinguishers, fire control equipment spill control equipment and decontamination equipment?	Yes No
265.33		(1) Is this equipment tested to assure its proper operation?	Yes No
		D. Water of adequate volume for hoses, sprinklers or water spray system?	<u>/</u> Yes No
		(1) Describe source of water DAVendusT	

265.3 5	3.	movement of personnel and equipment?	Yes	_ No
?65.37	4.	Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.)		No
65.50	5.	In the case that more than one police and fire department might respond, is there a designated primary authority? a. If yes, list primary authority	<u> </u>	No
65.52 (a)	6.	Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? Are they readily available to all personnel?	X Yes _	No No
(c)	7.	Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?	<u></u>	No
	8.	If State or local authorities decline to enter, is this entered in the operating record?	Yes _/	X No
65.52	Sec	ction C - Contingency Plan and Emergency Procedures		
	1.	Is a contingency plan maintained at the facility?	<u></u>	No
Ċ		a. If yes, is it a revised SPCC Plan?	Yes _	X No
	2.	Is there an emergency coordinator on site at all times?	Yes	X No
	Sec	ction D - Manifest System, Recordkeeping and Reporting		
65.71	1.	Does facility receive waste from off-site?	Yes _	X No
		a. If yes, does the owner/operator retain copies of all manifests?	Yes _	_ No
D 160h	SACK			

	(1) Are the manifests signed and dated and returned to the generator?	χ Yes	No
	(2) Is a signed copy given to the transporter?	X Yes	No
2.	Does the facility receive any waste from a rail or water (bulk shipment) transporter?	Yes	<u>X</u> No .
	a. If yes, is it accompanied by a shipping paper?	Yes	No /
	(1) Does the owner/operator sign and date the shipping paper and return a copy to the generator?	ng Yes	No
	(2) Is a signed copy given to the transporter?	Yes	No
3.	Has the owner/operator received any shipments of waste which were inconsistent with the manifest? (manifest discrepancies)	Yes	No No
	 If yes, has he attempted to reconcile the discrepancy with the generator and transporter? If no, has Regional Administrator been notified? 	Yes	No ^^
4.	Does the owner/operator keep a written operating record at the facility?	X_{Yes}	No
	A. If yes, does it include:		
	(1) Description and quantity of each hazardous waste received?	$\frac{\lambda}{\lambda}$ Yes	Nc
	(2) Location and quantity of each hazardous waste at each location?	_X γes	No
	(3) Records and results of waste analyses?	_X Yes	No
	(4) Reports of incidents involving implementing of the contingency plan?	Yes	No /

			(5)	Records and results of required inspections?	Yes	X No
			(6)	Monitoring, testing or analytical data?	X Yes	No
			(7)	Closure cost estimates and for disposal facilities post-closure cost estimates? (Not effective until May 19, 1981.) 7: NAVAN ASSULANCE COOPERS GRUENCE - 2-22-23 THANSMITTED	Yes	No
6 5.7 5	5.	Has the	the f	acility received any waste (that does not come under generater exclusion) not accompanied by a manifest?	Yes	
(a.	If ye	es, has he submitted an unmanifested waste report to the onal Administrator?	Yes XN	lo

PALI	LIIY
DATE	·
EPA	ID NO

RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

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RCRA COMPLIANCE INSPECTION REPORT NARRATIVE EXPLANATIONS

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7007 dated 2-4-83 1 Down cyanide d'Aste 5 Osum in overfacts 6-28-83 7-6-83 1 , 6-28-83 7005 11

To Down's 2 Abeled Doo'2 Corrosive not on Part A it would appear that they were originally labeled 7007 3 CAIDONS LABELED AS WASTE ACIDS - CLECTTO colish solutions Photo #3 ->1 DOOS - BAI, UM not on Part A 5-17-83

8-3-82 OverpACK

HAZARDOUS WASTE

PERSONNEL TRAINING





PREFACE

Hazardous Waste Management facilities are required to train those persons who, as a part of their regular duties, are intimately involved with the daily handling and movement of the identified wastes. Since the number in this group is extremely small, we feel it is to our mutual advantage to provide a broad training program to others throughout the facility. This will include the background information and reasoning for the HWM Plan. It is hoped this will foster cooperation by those who are peripherally involved so that waste quantities can be reduced, new inventory and waste hauling costs can be reduced and the importance of waste segregation is realized.

All of these personnel will receive the information contained in Sections 1 through 3. Those who need more intensive training will additionally be provided the information contained in Section 4. Appropriate training records will be maintained for both groups. Retraining will be conducted annually for those initmately involved in the plan compliance.

If you have any questions regarding Hazardous Waste Management at this facility, contact your supervisor or the undersigned.

Paul E. Bohnsack

Litton

HAZARDOUS WASTE TRAINING MANUAL CONTENT

1.0 Introduction

- 1.1 The Resource Conservation and Recovery Act RCRA
- 1.2 Chemical Hazards
- 2.0 Facility and Process Description
 - 2.1 Description of Wastes to be Managed
 - 2.2 Description of Storage Facility
 - 2.3 Key Terms of the Permit
 - 2.4 Normal/routine Operations
 - 2.5 Waste Analysis
 - 2.6 Recordkeeping and Reporting Requirements
 - 2.7 Security
 - 2.8 Inspections
- 3.0 Emergency Procedures and Contingency Plans
 - 3.1 Emergency Coordinator
 - 3.2 Emergency Procedures
 - 3.3 Emergency Communications/Phone Numbers and Alarms
 - 3.4 Location, Maintenance, Inspections, and Use of Emergency Equipment
 - 3.5 Spill Control and Response to Groundwater Contamination Incidents
 - 3.6 Fires and explosions
 - 3.7 Power Interruption or Failure
 - 3.8 Severe Weather
- 4.0 Detailed Instruction
 - 4.1 Hazardous Waste Characteristics
 - 4.2 Hazardous Wastes
 - 4.3 Safety
 - 4.4 Emergencies
 - 4.5 Inspection
 - 4.6 Identification and Inventory Control

Litton

HAZARDOUS WASTE TRAINING

1.0 Introduction

1.1 Resource Conservation and Recovery Act

In 1976, Congress passed the Resource Conservation and Recovery Act (RCRA). The stated objectives of RCRA are to promote the protection of human health and the environment and to conserve valuable material and energy resources. Subtitle C of RCRA specifially concerns the management of hazardous waste.

The following elements are the key to the Federal hazardous waste management regulatory program under RCRA:

- definition of hazardous waste
- a manifest system to track hazardous waste from its generation to its final disposal
- standards for generators and transporters of hazardous waste
- permit requirements for facilities that treat, store, or dispose of hazardous waste
- requirements for state hazardous waste programs

On May 19, 1980, regulations promulgated under RCRA (over 500 pages) required, among other things, that owners or operators of hazardous waste management facilities train selected personnel. This is the reason we ask you to be certain you sign the attendance sheet. We must have these on file for review by the EPA or Iowa DEQ.

1.2 Chemical Hazards

An assessment of the hazardous wastes generated in recognizable quantities in this plant indicates that three classes of problems could exist: <u>ignitability</u>, or materials which have a flash point below 140°F, as with alcohol; <u>toxicity</u>, or materials which could have a deleterious effect if taken into the body in sufficient amounts, for example, chromic acid, and <u>reactivity</u>, or materials which have a potential for reacting with other materials, such as acids or caustics.



2.0 Facility and Process Description

2.1 Description of wastes to be managed

The description column in Figure 1 lists the materials which are considered as hazardous wastes, and which may be encountered in our operation. Also noted are some other data, as to EPA numbers, codes, etc. which we should discuss.

2.2 Description of Storage Facilities

The regulations are rather explicit for plants which store hazardous wastes for over 90 days. We are such a plant, therefore, a new building will be erected along the west end of the main plant for the storage of our hazardous wastes.

This can be a complicated subject, but the rate of accumulation at our plant does not warrant such systems as storage tanks, piping, pumps, waste piles, treatment facilities, etc. All wastes which we generate can be conveniently stored in suitable 55 gallon drums.

The drawings in Figure 2 and Figure 3 show the concept of the proposed Hazardous Waste Storage Building.

2.3 Key Terms of the Permit

A Hazardous Waste Permit Application must cover the following:

- ...Facilities Description
- ..Waste Characteristics
- ..Process Description (Waste container management, etc.)
- .. Procedures to Prevent Hazards (Precautionary Procedures)
- .. Contingency Plan (What to do if an Emergency Develops)
- ...Training Plan
- .. Closure Plan (Plans for future Complete Abandonment of Site)

All manufacturers who generate and store over 2,200 pounds (approximately 5 drums) per month of materials defined as hazardous wastes are now required to apply for a special EPA permit. An iterim permit application was required by November, 1980, and an application for a final permit was to be "on request".

We complied with the first part two years ago, and have now been notified our final permit application is due by October, 1982.

The implications of qualifying or operating to this regulation are very involved. The final permit application outline alone is over 8 pages long and includes scores of references to State and Federal Regulations.



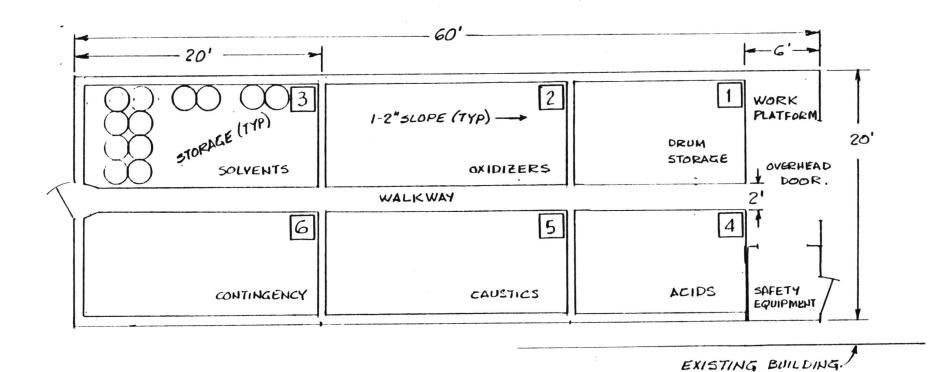
GENERIC CATEGORY	EPA HW	HAZARD CODE	DESCRIPTION	WHERE USED
Chlorinated Solvents	F001	T	l,1,1-Trichloroethane Trichloroethylene	Vapor degreasers in Tumbling, parts wash, plating
Thinners	F003	I	Acetone Xylene Butyl Alcohol Cyclohexane	Various areas in fabrication and assembly
	F005	I,T	Methanol Ethyl Alcohol Denatured Alcohol Isopropyl Alcohol MEK Toluene Hexane Paint & lacquer Thinner	Various areas in fabrication and assembly
Spent Plating Baths	F007	R,T	Chromic Acid Cadmium cyanide Copper cyanide Silver cyanide Tin Chromate baths	Plating
Plating Sludges	F008	R,T *	Any of F007	Plating
Spent Acids	F009	R,T *		Plating
Heat Treat Oil Sludges	F010	R,T		Heat Treating
Heat Treat Salts	F011	R,T	Nitrate & Nitrites	Heat Treating

^{*}Even though these are in the same "F" category, they are not to be mixed except at the direction of the senior chemist.

Note - DO NOT INTERMIX "F" CATEGORY WASTES.

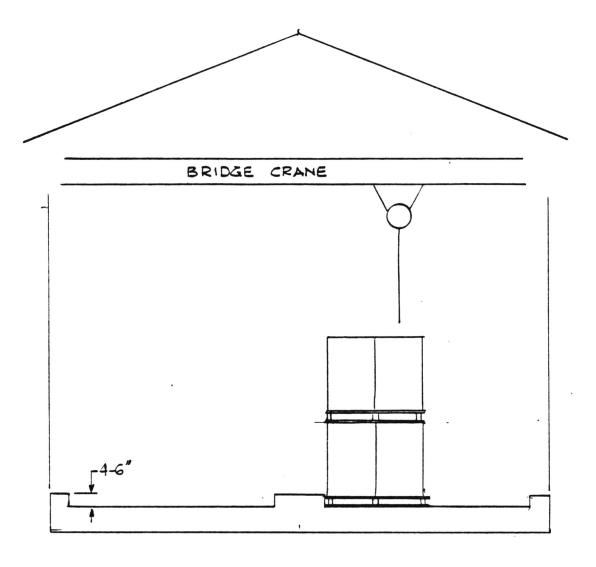
- SERVICE DRIVE ----





PLAN VIEW STORAGE BUILDING

SCALE: 1"=8"



TYPICAL END VIEW ELEVATION

SCALE: | "= 4"

HAZARDOUS WASTE TRAINING



We would like you to see an audio-visual program prepared by the Industrial Training Systems Company. It broadly covers the generation, storing, transporting, treating and disposing of materials defined as hazardous wastes under the regulations. We think it worthwhile to show this to all of you on a one time basis so you can see how the system is suppose to work. The subject will be reviewed at intervals for those who are intimately involved.

We hope you all will get an appreciation of the importance of waste segregation; otherwise, the people in shipping, who manifest the material, might declare a barrel to be all triclene (to the best of their knowledge) while actually it is $\frac{1}{2}$ gasoline. Such confusion would continue on down the line and in fact could cause us serious disposal problems.

As you might envision, misuse of materials can only drive costs up and make the division less competitive. Consider a barrel of solvent. Not only has the price increased dramatically over the years, but the purchaser must now assume 2 or 3 times the initial cost to provide for the ultimate disposal. Society is getting complicated. No longer can we hire just any truck driver to haul waste to whatever dump he sees fit. Also, consider waste. The more you use, the more you must dispose of. And also, do not forget that severe penalties can be imposed on the company if they do not comply.

Do not be overly alarmed by this. We all tend to resist anything that requires a change. Once we get use to strict compliance, it will become more and more routine. The company has spent considerable time, effort and money in preparation for HWM, and probably most of you are already doing what is required. We specifically need the cooperation of all of you in this room.

- ...DO NOT USE ANY CONTAINER THAT LEAKS.
- ...DO NOT SEND UNMARKED CONTAINERS FOR REFILLING.
- ...DO NOT FILL UNMARKED CONTAINERS.
- ...DO NOT USE A "WORK" PAN UNLESS IT IS CLEARLY MARKED.
- ...DO NOT PLACE "USED" CHEMICALS INTO UNMARKED CONTAINERS.
- ...DO BE CERTAIN THAT "USED" CHEMICALS ARE PLACED IN THE PROPER WASTE CONTAINERS.

If you need labels or clarification, contact your supervisor.

Frankly, industry will probably never be 100% successful in the waste segregation effort. We would hope that we can be 99% correct and not 50%.

And now, the slide presentation.

Now that we have painted a horrible picture, let us say that most individuals need to understand and follow only a few simple requirements. We thought it worthwhile, however, to show all of you this slide program so that you will understand what we are trying to comply with.

Hillor

2.4 Normal/Routine Operations

The slide program should have given you some grasp of the routine of the whole program. The routine in our shop will go something like this. Wastes in the solvent category will be placed in small containers by the generating departments. The small containers will be collected daily by the oiler and the contents transferred to a drum in the drum filling area. Before starting each 55 gallon drum, the Oiler must obtain a Hazardous Waste Label from the Maintenance Foreman, or the Plant Engineer. The label will be filled out completly except for the manifest number before it is supplied to the Oiler. Labels will be numbered sequentially. At the same time the Plant Engineering Department fills in the label, they will enter the information on the Hazardous Waste Log. The Oiler will affix the label to a fresh drum, and proceed with filling. When the drum is filled, he will notify the Plant Engineer's office that drum "XYZ" is filled (so that the log entry can be completed) and then move the closed drum to the Hazardous Waste Storage Building. At the time the drum later comes out of storage and is given to the transporter, the Shipping Department will assign and affix the manifest number plus any required shipping labels not already affixed.

Many wastes, other than flammable solvents, will be handled in much the same manner, except that they will not be accumulated in small containers nor go to the filling area. Normally these will occur at intervals and in larger batches. Another member of Maintenance may be assigned to help clean out a vapor degreaser or a discarded plating bath for instance. In such cases, the properly filled in Hazardous Waste labels must be affixed to the barrels on the site where they are filled and the log maintained accordingly. Again, these functions will be the primary responsibility of the Plant Engineering Department. In these cases, the labeled and closed drums will be moved directly to the storage area.

2.5 Waste Analysis

The regulations are rather explicit on this subject. The Company must have a typical analysis established for each type of waste at the first time it occurs and each time there is reason to expect a change. Most analysis require special equipment, accuracy to parts per million and cost hundreds of dollars -- a good reason to both conserve and to "do things by the book".

2.6 Record Keeping and Reporting

Hazardous Waste Log sheets go to the Safety and Security Office when filled, where they must be available to both State and Federal Administrators. In addition, the Supervisor of Safety and Security must submit an annual report plus an accident report, should one occur, and the Shipping Department must keep a manifest file, with tracers as applicable.

1

HAZARDOUS WASTE TRAINING

2.7 Security

The Company is required to maintain a complete file concerning fences, doors, guards, locks, inspections, etc. It is most important that the individual worker help us keep our record clean by helping to keep the Hazardous Waste area secure and to report any breaches of security or safety to his/her supervisor. The HWS area and filling area always should be locked when not attended.

2.8 Inspections

A complete inspection schedule and set of inspection log sheets has been submitted as we see our operations fitting the federal regulations. Inspections will be made weekly and monthly by the Plant Engineering Department and/or the Safety and Security Department. Reports must be kept on file in the Safety and Security Office.



3.0 Emergency Procedures and Contingency Plan

3.1 Emergency Coordinator

The Manager of Safety and Security is the Emergency Coordinator. He is responsible for planning for emergencies of all types and magnitudes and for presenting procedures and techniques to an Emergency Advisory Committee composed primarily of himself, the Director of Employee Relations, the Plant Engineer, the Engineering Manager of Support Engineering and the Manufacturing Manager of Assembly and Fabrication.

3.2 Emergency Procedures

This entire topic is covered in the Divisional Safety and Health Plan, under Policy E-2. Topics covered include electrical, gas and water failure, fire, explosion, floods, tornados, and release of hazardous wastes. The most likely danger with Hazardous Wastes in this plant is probably fire.

3.3 Emergency Communications/Phone Numbers and Alarms

In the Safety and Health Manual are listed the phone numbers of the Fire Department, Police, Ambulance, Hospitals, and a dozen others. Internally, special calls, listed on the cover of the Company Telephone Directory are:

- ...Fire 370
- ...First Aid 272
- ... Emergency First Aid 345
- ...Guard House 273
- ... Emergency Maintenance 260
- ...Public Address 8800

Certain lines are on independent power. There is an annunciator in the guard house to monitor the automatic sprinkler system, which covers the plant. As some of you know, we also have a Halon system in the computer room and some $\rm CO_2$ systems in special areas.

3.4 Location, Maintenance, Inspections, and use of Emergency Equipment

There are 5 stretcher stations located along the main corridors and 5 emergency shower-eye stations located in plating, the oil house, the tumbling department and the Met Chem Lab. These are on a HW Inspection schedule as are the 200 fire extinguishers located strategically throughout the plant. In addition, these get a yearly inspection/servicing by an outside contractor.



3.5 Spill Control and Response to Ground Water Contamination Incidents

Liquid spills or leaks will be picked up by "Hazorb" or equivalent universal absorbent pillows. The "Hazorb" pillows will be stored in a closet in the north end of the HWS building. There will be an outside door, facing the guardhouse. These will be handled as per the material involved and placed in fresh containers. In the unlikely event of ground water/soil contamination, the advisory committee will decide on the best method of clean-up. The Manager of Safety and Health must report this event to the DEQ as an accident, should such occur.

3.6 Fires and Explosions

The Davenport Fire Department has agreed to be responsible for coordinating any community emergency groups which may be called in. Report such events to the Guardhouse, which will trigger appropriate decisions, then render such assistance as you can or as you are requested.

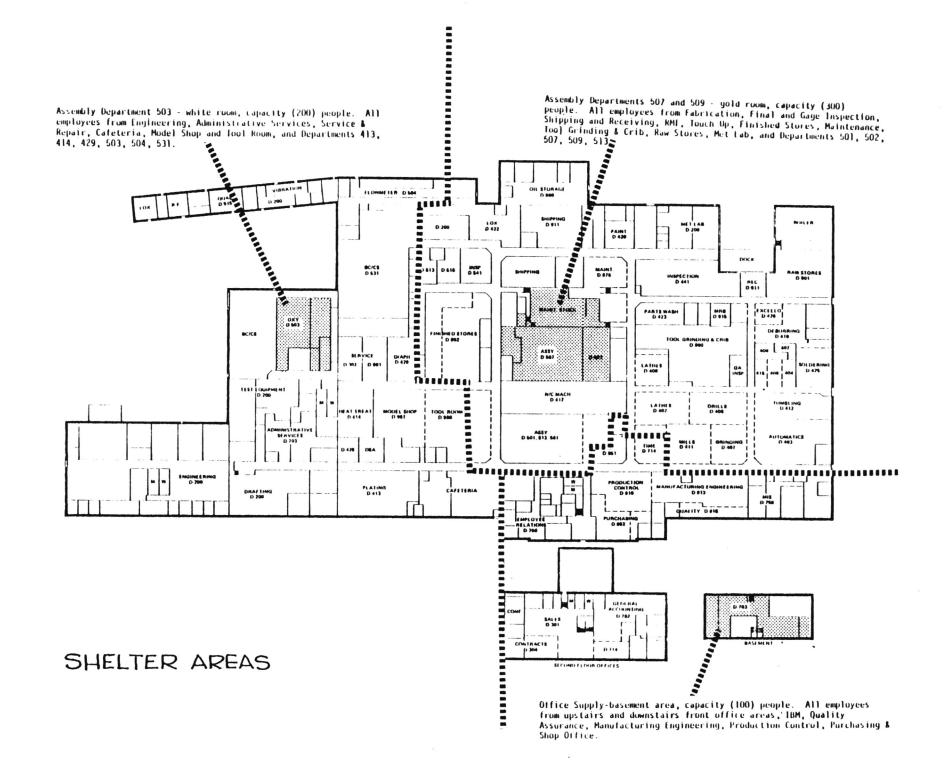
3.7 Power Interruptions or Failure

Generally speaking, the individual foremen will be responsible for disconnecting power circuits within their department to minimize switch gear damage on restarting. Main electrical disconnects are located outside, behind maintenance, for the west end of the plant, and on the mezzanine by Assembly for the east end of the plant and for engineering. Emergency lighting is automatic.

3.8 Severe Weather

The primary thing to remember is the appropriate shelter area as shown in Figure 4.

You will be notified by loudspeaker. Shut off individual machines and equipment and proceed in an orderly manner to your designated area.





4.0 Detailed Instruction

4.1 Hazardous Waste Characteristics

At the mention of hazardous wastes, one might think of things like contagious disease germs or pathogens, or radioactive substances, or molten slag from a blast furnace, etc. While such things may be dangerous, they are not necessarily hazardous wastes in the present context. In dealing with RCRA, we are governed by Title 40, subpart C of the Code of Federal Regulations, which defines hazardous wastes as wastes with a certain degree of ignitability, corrosivity, reactivity or toxicity. Some waste materials could meet two or more of these definitions. We will discuss the four characteristics separately.

Ignitibility

A material which is prone to burn will have a "flash point". In testing, a sample is slowly heated up, with a flame periodically played near the surface. The temperature when the first flash occurs is the flash point. As the temperature is increased, a point will be reached where flame is sustained. This is the fire point. At some particular temperature, the material would catch fire without a flame to kindle it. This is the auto-ignition point. An example would be a unlighted match placed in an oven. A match stick without any head would have a still higher fire point. At any rate, a 1400 flash point is the magic number in the present instance. A waste with a flash point of 1400 or lower is, by definition, an ignitable hazardous waste. We have always tried to use the safest materials that would do the job at this division, but there are limits to everything. Keeping open flames away is particularly important with ignitables.

Corrosivity

The measure of whether a substance is an acid or a caustic is its "pH", which ranges from 0 to 14. Water has a pH of 7. A strong acid has a pH of 1, and a strong caustic has a pH of 13. Either extreme will "eat" certain materials. By definition, a waste is corrosive if it has a pH less than 2 or greater than 12.5, or if it will corrode mild steel beyond a specified rate at a specified temperature. Corrosives must be stored in plastic lined drums.

Reactivity

There are several criteria. Anything that is chemically unstable, that reacts violently with water, or that can be "detonated" (as with dynamite) qualifies. Our heat treat salt contains nitrate, which is one of the components of an explosive and is classed as a reactive. Generally speaking, keep reactives dry and separate from other materials.



Toxicity

This is the measure of what effect a particular substance has on animals. Any one of about 100 compounds or metals found to be present above specified limits that are known to effect laboratory animals is rated as toxic. This includes most of our plating wastes. The thing to do around toxic chemicals is to minimize exposure to the body. This is why we have "no smoking, no eating and no drinking" rules in the plating department and the soldering areas. Wash the hands well after leaving and report any symptons to First Aid.

4.2 Hazardous Wastes

The regulations mention many types of waste which are <u>not</u> considered hazardous, such as household refuse, garbage, trash, sewage, ashes, slag, waste water, etc. Some types listed as hazardous are things we are not involved with, such as the "U" materials (intermediates) and the "P" materials (off spec chemical products).

It has been determined that we do generate recognizable quantities of several wastes classified as "F" materials.

- --F001 Wastes (Coded T for toxic) consist of vapor degreaser solvents. These can be mixed together.
- --F003 Wastes (Coded I for ignitable) consist of several other solvents. We use these materials very little, but provided for them so that they can be used when needed. These can all be mixed together.
- --F005 Wastes (Codes I for ignitable and T for toxic) consist of most of our flammable solvents, and is our most general class of hazardous wastes. These can be all mixed together.
- --F007 Wastes (Codes R for reactive and T for toxic) consist of spent plating baths. These can not be mixed.
- --F008 Wastes, though all in the same EPA group, should not be mixed indiscriminately. Fortunatly these wastes usually occur only when a spent plating bath must be discarded, and it is not that inconvenient to package them separately. These wastes consist of the sludge equivalents of F007. In other words, the liquid portion of a discarded bath should be poured into a barrel with bung, and given a F007 number. The sludge material may be placed in an open ended drum and numbered F008.
- --F009 Wastes consists of spent pickling and stripping baths from plating, and are most often acids. However a few are caustics. Spent acids and caustics should not be mixed. Again, package separately. The plating tank materials will provide a clue as to the type of drum to use. In general, never place acids in unlined drums.



- --F010 consists of heat treat oil sludges.
- --F017 did consist of paint residues. Liquid portions should be discarded with paint thinners, under F005. In the recent past, this dried material was not considered hazardous and could be discarded with the trash.

Just a couple other comments. The small amount of continous dragout and rinse over-flow from each plating bath goes to the sewer, and does not have to be packaged and disposed of as a hazardous waste. However, the Davenport Waste Water Treatment Plant (operating under the EPA) sends people around to sample our outlfow several times a month. It is in our interest to keep plating drag-out down, and drain-back as much as possible. Not only does this avoid penalties, but reduces the amount of chemicals which must be added to the plating baths.

Also, the coding of hazardous wastes was done by the EPA, and is a relative thing. Just because something bears a "toxic" or "ignitable" code, doesn't necessarily mean that it is as dangerous as gunpowder. We have always tried to use the least dangerous materials which would do the job. But do treat all these materials with respect.

4.3 Safety

Rubber aprons, plastic gloves and face shields are available for operator protection. In many instances, common sense will indicate when these should be worn, by both production and maintenance personnel. Concerning hazardous wastes, this protective equipment will be required when cleaning out a tank or container (until the waste has been removed) and wherever there is any danger of splashing the material on the face, or any part of the body. Flush the body area with clean water if accidentally exposed. Consult First Aid if any irritation or other symptoms persist.

Strictly avoid ingestion of the cyanide solution, or the exposure of any open sores. Consult First Aid immediately should these things happen. Food and drink are forbidden in the plating department.

Avoid the breathing of fumes (particularly of vapor degreaser solvents) by the use of exhaust fans, or adequate ventilation.

4.4 Emergencies

Spillage and container leakage are the most common unplanned events, since all these hazardous wastes are stored manually in drums at this Division, and we do not depend on any automatic pumps, pipes, tanks, or waste piles. "Hazorb" or equivalent universal sorbent "pillows" will be provided, and can be used with all of the liquids involved. These pillows are porous polyolefin envelopes filled with amorphous silica and a one pound pillow will absorb up to two gallons of liquid in 30 seconds. Wear protective clothing when cleaning up. The saturated "pillows" are to be placed in open top drums and re-identified. Use plastic liners for F009 chemicals, or any plating chemicals.



The F003 and F005 solvents are all flammable and explosive. The dry powder fire extinguishers can be used with both classes. Alert supervision immediately in the event of any fire, and report any injuries to First Aid. Do not expose to flames, sparks, welding, cutting or similar situations.

All of the above refuse is still hazardous waste and must be dealt with accordingly. An alternate treatment for acids or caustics (F009) which renders them inactive and harmless is to spread sodium bicarbonate on an acid, or citric acid on a caustic until the foaming activity ceases. The material may then be disposed of as trash, but this must be explained in records after the emergency is past.

4.5 Inspections

Periodic inspection of Safety and Emergency Equipment, Security Devices, and the Container filling and Storage Areas are a vital and important part of our HWM Plan. The inspection logs, as well as other logs in the Plan, must be available for review and inspection by the EPA or Iowa DEQ. The items which need to be inspected are detailed in Figures 5 and 6. It is important that you request your supervisor take action on any of these items which are defective.

4.6 Identification and Inventory Control

It is mandatory that all Hazardous Waste storage containers be properly identified. Figure 7 shows the label which we will use. The only item which will not be completed is the "Manifest Document No.____." This will be filled in by Shipping at the time the container is shipped from the facility. Note that (1) each container will have a distinctive identification number, and (2) the material terminology used in the plant is in the left margin of the label. If you notice any discrepancy, notify your supervisor.

Figure 8 is the Hazardous Waste Log which we must maintain for inventory control purposes. Any input you have should be exact and precise.

INSPECTION SCHEDULE

Area	a/Equipment	Specific Item	Types of Problems	Frequency o Inspection
	ety and emergency uipment		•	
	Drums (steel) Emergency shower Face shields and of Chemical cartridgo vapors and acid	eathing apparatus (SCBA) A) system g system nt and supplies	Out of stock Out of stock Water pressure, leaking, drainage Broken or dirty equipment Out of stock supplies Air quantity in reserve, air delivery system, moisture in tank (cold weather) Needs recharging Power failure Power failure Power failure, speakers Operational Battery failure, lights Items out of stock or inoperative Holes, normal wear and tear	Monthly
Secu	urity devices			
	Facility fence Main gate and lock East gate and lock		Corrosion, damage to chain-link fence or barbed wire Corrosion, damage to chain-link fence or barbed wire Corrosion, damage to chain-link fence or barbed wire	Monthly Monthly Monthly
Cont	tainer filling and	storage areas		
FIGURE 5	Container placement Sealing of contain Labeling of containers Segregation of inceptallets Base or foundation Curbs Warning signs Access	ners iners compatible wastes	Aisle space, height of stacks Open lids Improper identification, date missing Corrosion, leakage, structural defects Storage of incompatible wastes in same area Damaged (e.g., broken wood, warping, nails missing) Cracks, spalling, uneven settlement, erosion, wet spots Cracks, deterioration Damaged Blocked or restricted	Weekly Weekly Weekly Weekly Weekly Weekly Weekly Weekly

SAFETY AND EMERGENCY EQUIPMENT INSPECTION LOG SHEET

Inspector's Name/Title Date of Inspection	(Month/Day/Year)	Time of Inspection	(Military Time)
		STATUS	Date and Nature

		STA	TUS		Date and Nature
Item	Types of Problems	0ĸ	Reject	Obserations	of repairs/remedial action
Universal absorbents ½ lb. pillows, 60 minimum	Out of stock				
Citric Acid - 5 lb. package (granular or powder) - 2 minimum	Out of stock				
Sodium Bicarbonate - 5 lb. package - 2 minimum	Out of stock				
For emergency use only, minimum 2 closed head, unlined 55 drums	Out of stock				
83 gallon steel salvage drums - 3 minimum	Out of stock				
Emergency showers - One in oil house, adjacent to Hazardous Waste filling area. One in Dept. 412, adjacent to Hazardous Waste storage area. Two in Plating Dept.	Water pressure, leaking, drainage			_	
Face shield - One in Oil House. One in Storage Area.	Missing, broken or dirty equipment				
Chemical cartridge respirators for organic vapors and acid gases.	Minimum stock (3)				
Self-contained breathing apparatus Sott Air Pack type	Air quantity in reserve, air delivery system, moisture in tank (cold weather)				
Fire extinguishers O	Needs recharging				

SAFETY AND EMERGENCY EQUIPMENT INSPECTION LOG SHEET

nspector's Name/Title							
Date of Inspection	(Month/Day/Year)	Time of 1	Inspection	(Military	Time)		

		STATUS			Date and Nature	
Item	Types of Problems	0K	Reject	Obserations	of repairs/remedial action	
Fire alarm system	Power failure					
Telephone system	Power failure					
Public address system	Power failure, speakers					
Generators	Inoperative					
Emergency lighting system	Battery failure, lights					
First Aid equipment and supplies	Items out of stock or inoperative					
Protective clothing, flame resistant, disposable, 2 minimum	Holes, normal wear and tear Out of stock					
Facility fence	Corrosion, damage to chain link fence or barbed wire					
Main gate and lock	Corrosion, damage to chain link fence or barbed wire; inoperable lock					
East gate and lock	Corrosion, damage to chain link fence or barbed wire; inoperable lock					
Container filling and storage areas	Corrosion, damage to fence, inoperable locks					
6						

CONTAINER FILLING AND STORAGE AREA INSPECTION LOG SHEET

Inspector's Name/Title			
Date of Inspection	(Month/Day/Year)	Time of Inspection	(Military Time)

			ATUS		Date and Nature	
Item	Types of Problems	OK	Reject	Obserations	of repairs/remedia action	
Container placement and stacking	Aisle space, height of stacks					
Sealing of containers	Open lids					
Labeling of containers	Improper identification, date missing					
Containers	Corrosion, leakage, structural defects					
Segregation of Incompatible wastes	Storage of incompatible wastes in same area					
Pallets	Damaged (e.g. broken wood, warping, nails missing)					
Base or foundation	Cracks, spalling, uneven settlement erosion, wet spots					
Curbs	Cracks, deterioration				ļ	
Debris and refuse	Aesthetics, possible reaction with leaks					
Warning signs	Damaged, missing					
FIG.						
0						

AREA FOR CONTAINER NO. - THREE DIGITS-

AREA FOR I&LSD TERMINOLOGY

AREA FOR CELL NO. -SINGLE DIGIT -

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY

PROPER D.O.T. SHIPPING NAME	U	IN OR NA#	
GENERATOR INFORMATION: NAME CLIFTON PRECIS ADDRESS 2734 HICKORY	SION -IS	ROAD	
CITY DAVENPORT)
EPA ID NO. IAD 005268420	EPA WASTE NO.		,
ACCUMULATION START DATE	MANIFEST DOCUMENT NO)	

HANDLE WITH CARE!

CONTAINS HAZARDOUS OR TOXIC WASTES

STYLE WM-6





CHCACO.IL sosts

6

(DANGER)



CAUSTIC

SOPROPYLEALCOHOL

(2-Propanol)

FLAMMABLE MAY CAUSE EYE BURN MAY BE HARMFUL IF SWALLOWED

o not take inter

Lo not take inversed.

Leep container closed.

Avoid prolonged by superior in the container of the container

CHLOROETHYLEN

HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIM

DO NOT EREATHE WAPOR, USE CHLY WITH ADRODOME YENGEATION.
KEEP CONTAINER CLOSES.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
WASH THOROUGHLY AFFEE HARDANG, BO NOT TAKE INTERNALLY.
WHEN HEATED TO DECOMPOSITION OR ON CONTACT WITH ACIDS
EVOLVES INGHLY TOOK CHLORNE PAMES.